CONSTRUCTION NEWS

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Apr. 15	Cameron, W. Va.	Apr. 12
Apr. 16	Totowa (Paterson P. O.), N. J.	Mar. 29
Apr. 16	Pennington, N. J.	Apr. 5
Apr. 18	Richmond, Va. Adv. Mar. 22 to Apr. 12.	Mar. 22
Apr. 18	Costa Mesa, Calif.	Apr. 12
Apr. 23	Springfield, Ill. Adv. Apr. 5 and 23.	Apr. 5
Apr. 24	Belmar, N. J. Adv. Apr. 12.	Apr. 12
Apr. 24	Locust Valley, N. Y. Adv. Apr. 12.	Apr. 12
Apr. 26	New Orleans, La. Adv. Mar. 8 to Apr. 12.	Mar. 8
May 12	Memphis, Tenn. Adv. Apr. 12.	Apr. 12

SEWERS

Apr. 16	Urbana, Ill.	Mar. 15
Apr. 16	Johnstown, Pa.	Mar. 29
Apr. 16	Akron, O.	Apr. 5
Apr. 16	Lebanon, Pa. Adv. Apr. 5 and 12.	Apr. 5
Apr. 16	Waterloo, Ia.	Apr. 5
Apr. 16	Vermilion, S. D.	Apr. 5
Apr. 16	Beloit, Wis.	Apr. 12
Apr. 17	Paterson, N. J.	Mar. 29
Apr. 17	Chicago, Ill.	Apr. 12
Apr. 17	Long Island City, N. Y.	Apr. 12
Apr. 18	Hamilton, Ont.	Apr. 5
Apr. 18	Cleveland, O.	Apr. 12
Apr. 19	Laramie, Wyo.	Apr. 5
Apr. 21	Milwaukee, Wis.	Apr. 12
Apr. 23	Marysville, Kan. Adv. Apr. 5 and 12.	Apr. 5
Apr. 24	Buffalo, N. Y.	Mar. 29
Apr. 24	Indianapolis, Ind. Adv. Apr. 5 and 12.	Apr. 5
Apr. 24	Louisville, Ky. Adv. Apr. 5 and 12.	Apr. 5
Apr. 25	Glens Falls, N. Y. Adv. Apr. 12.	Apr. 12
Apr. 27	Wash., D. C. Adv. Apr. 12.	Apr. 12
Apr. 28	Lima, O. Adv. Apr. 12.	Apr. 12
May 3	Independence, Kan.	Apr. 12
May 7	Los Angeles, Calif. Adv. Apr. 12.	Apr. 12

WASTE DISPOSAL

Apr. 26	Cleveland, O.	Apr. 5

BRIDGES

Apr. 16	Johnstown, Pa.	Mar. 29
Apr. 16	Chicago, Ill.	Apr. 5
Apr. 17	Chehalis, Wash.	Apr. 5
Apr. 18	Appleton, Wis.	Apr. 5
Apr. 19	Hot Surings, S. D.	Apr. 12
Apr. 19	Pittsburgh, Pa.	Apr. 12
Apr. 20	Sacramento, Calif.	Apr. 5
Apr. 20	Michigan	Apr. 12
Apr. 20	Florida	Apr. 12
Apr. 20	Ft. Scott, Kan.	Apr. 12
Apr. 24	Louisiana	Apr. 12
Apr. 27	Williamsport, Pa. Adv. Apr. 12.	Apr. 12
Apr. 27	Fresno, Calif.	Apr. 12
Apr. 30	San Anselmo, Calif.	Apr. 12
May 3	Alabama	Apr. 12
Sept. 1	Sydney, New South Wales, Australia	Aug. 3

RAILWAYS

Apr. 19	California	Apr. 12

EXCAVATION, DRAINAGE, IRRIGATION

Apr. 16	Oroville, Calif.	Apr. 5
Apr. 17	New York, N. Y.	Apr. 5
Apr. 19	Sebastian, Fla.	Apr. 12
Apr. 23	Audubon, Ia.	Apr. 5
June 15	Albert Lea, Minn.	Apr. 12

STREETS AND ROADS

Apr. 15	Schuyler, Neb.	Apr. 12
Apr. 16	Canonsburg, Pa.	Mar. 22
Apr. 16	Kingston (Wilkes-Barre P. O.), Pa.	Mar. 29
Apr. 16	Shenandoah, Pa. Adv. Mar. 29 to Apr. 12.	Mar. 29
Apr. 16	Mitchell, S. D.	Mar. 29
Apr. 16	Glendive, Mont.	Mar. 29
Apr. 16	Olympia, Wash.	Apr. 5
Apr. 16	San Diego, Calif.	Apr. 5
Apr. 16	Akron, O.	Apr. 5
Apr. 16	Redwood City, Calif.	Apr. 5
Apr. 16	Cincinnati, O.	Apr. 12
Apr. 16	Elmhurst, Ill.	Apr. 12
Apr. 16	Akron, O.	Apr. 12
Apr. 16	Sayre, Okla.	Apr. 12
Apr. 16	Topeka, Kan.	Apr. 12
Apr. 16	St. Paul, Minn.	Apr. 12
Apr. 16	South Manchester, Conn.	Apr. 12
Apr. 16	Chicago, Ill.	Apr. 12
Apr. 17	Buffalo, N. Y.	Apr. 12
Apr. 17	Massachusetts	Apr. 12
Apr. 17	St. James, Minn.	Apr. 12
Apr. 17	Alabama	Mar. 22
Apr. 17	St. Louis, Mo.	Mar. 29
Apr. 17	Washington	Apr. 5
Apr. 17	Florida	Apr. 5
Apr. 17	Louisiana	Apr. 5
Apr. 17	West Bend, Wis.	Apr. 5
Apr. 17	Maryland Adv. Apr. 5 and 12.	Apr. 5
Apr. 17	Maryland Adv. Apr. 12.	Apr. 12
Apr. 17	Long Island City, N. Y.	Apr. 12
Apr. 17	Milwaukee, Wis.	Apr. 12
Apr. 17	Ithaca, Mich.	Apr. 12
Apr. 17	Deadwood, S. D.	Apr. 12
Apr. 17	Wilkes-Barre, Pa.	Apr. 5
Apr. 18	Delaware	Apr. 5
Apr. 18	Freehold, N. J. Adv. Apr. 5 and 12.	Apr. 5
Apr. 18	Bennington, Vt. Adv. Apr. 5 and 12.	Apr. 5
Apr. 18	Florida	Apr. 5
Apr. 18	Ebensburg, Pa.	Apr. 5
Apr. 18	Nevada	Apr. 5
Apr. 18	Havana, Ill.	Apr. 12
Apr. 18	Cleburne, Tex.	Apr. 12
Apr. 18	San Francisco, Calif.	Apr. 12
Apr. 18	Titusville, Fla.	Apr. 12
Apr. 18	Fargo, N. D.	Apr. 12
Apr. 18	Leland, Mich.	Apr. 12
Apr. 18	Dearborn, Mich.	Apr. 12
Apr. 19	Petersburg, Ind.	Apr. 5
Apr. 19	Newton, N. J.	Apr. 5
Apr. 19	Reynoldsville, Pa. Adv. Apr. 12.	Apr. 12
Apr. 19	Wisconsin	Apr. 12
Apr. 20	Sioux Falls, S. D.	Mar. 29
Apr. 20	Kentucky	Apr. 5
Apr. 20	Illinois	Apr. 5
Apr. 20	Harvey, Ill.	Apr. 5
Apr. 20	Ft. Scott, Kan.	Apr. 12
Apr. 20	Richmond, Va. Adv. Apr. 12.	Apr. 12
Apr. 20	New York Adv. Apr. 5 and 12.	Apr. 12
Apr. 20	Uvalde, Tex.	Apr. 12
Apr. 20	Columbus, Tex.	Apr. 12
Apr. 20	Chicago, Ill.	Apr. 12
Apr. 23	Sanford, Fla.	Apr. 5
Apr. 23	Cedar Grove, La.	Apr. 12
Apr. 23	Dallas, Tex.	Apr. 12
Apr. 23	Yankton, S. D.	Apr. 12
Apr. 23	Bexley (Columbus P. O.), O.	Apr. 12
Apr. 23	Hondo, Tex.	Apr. 12
Apr. 23	Redwood City, Calif.	Apr. 12
Apr. 24	Trenton, N. J. Adv. Apr. 12.	Apr. 12
Apr. 24	Columbus, O.	Apr. 12
Apr. 25	Seneca, Kan.	Apr. 5
Apr. 25	Crookston, Minn.	Apr. 5
Apr. 25	Warren, Minn.	Apr. 12
Apr. 25	Kentucky	Apr. 12
Apr. 25	Duluth, Minn.	Apr. 12
Apr. 25	Irvine, Ky.	Apr. 12
Apr. 25	Tacoma, Wash.	Apr. 12
Apr. 25	Nevada, Ia.	Apr. 12
Apr. 26	Bloomfield, Ia.	Apr. 12
Apr. 26	St. Francis, Kan.	Apr. 5
Apr. 26	Plainfield, N. J. Adv. Apr. 12.	Apr. 12
Apr. 26	Deal (Deal Beach P. O.), N. J. Adv. Apr. 12.	Apr. 12
Apr. 27	Wellington, Kan.	Apr. 5
Apr. 30	Warwick, N. Y. Adv. Apr. 12.	Apr. 12
Apr. 30	San Anselmo, Calif.	Apr. 12
May 1	Miami, Fla. Adv. Apr. 12.	Apr. 12
May 1	West Virginia	Apr. 12
May 1	Atchison, Kan. Adv. Apr. 12.	Apr. 5
May 1	Washington	Apr. 5
May 1	Pennsylvania Adv. Apr. 12.	Apr. 12
May 1	Trenton, N. J.	Apr. 12
May 3	Mobile, Ala. Adv. Apr. 12.	Apr. 12
May 4	Hiawatha, Kan.	Apr. 12

INDUSTRIAL WORK

Apr. 16	Altoona, Pa.	Apr. 5
Apr. 16	Milwaukee, Wis.	Apr. 12
Apr. 16	Norwood (Cincinnati P. O.), O.	Apr. 12
Apr. 18	Muscatine, Ia.	Mar. 29
Apr. 20	Green Bay, Wis.	Apr. 5
Apr. 23	Rapid City, S. D.	Apr. 5
Apr. 24	Huron, S. D.	Apr. 5

BUILDINGS

Apr. 16	Marquette, Mich.	Apr. 5
Apr. 16	Ann Arbor, Mich.	Apr. 5
Apr. 16	Lawrence, Mass.	Apr. 12
Apr. 16	Trenton, N. J.	Apr. 12
Apr. 16	Erie, Pa.	Apr. 12
Apr. 16	Stamford, Conn.	Apr. 12
Apr. 17	Williamson, W. Va.	Apr. 5
Apr. 17	Akron, O.	Apr. 5
Apr. 17	Lapeer, Mich.	Apr. 12
Apr. 17	Haddon Heights, N. J.	Apr. 12
Apr. 18	Mayville, Wis.	Apr. 5
Apr. 18	Marion, N. Y.	Mar. 29
Apr. 18	Sioux City, Ia.	Apr. 5
Apr. 19	Seward, Neb.	Mar. 29
Apr. 19	New York, N. Y.	Apr. 5
Apr. 19	Brooklyn, N. Y.	Apr. 5
Apr. 20	New Haven, Conn.	Mar. 29
Apr. 20	Appleton, Wis.	Apr. 12
Apr. 20	Detroit, Mich.	Apr. 12
Apr. 21	Mayville, N. Y.	Apr. 5
Apr. 21	Racine, Wis.	Apr. 5
Apr. 21	Providence, R. I.	Apr. 12
Apr. 21	Waterbury, Conn.	Apr. 12
Apr. 23	Watertown, N. Y.	Apr. 12
Apr. 24	Green Bay, Wis.	Apr. 5
Apr. 24	Lakewood (Cleveland P. O.), O.	Apr. 12
Apr. 26	Lakewood, N. J.	Apr. 12
Apr. 31	Capa, S. D.	Mar. 8
May 1	Mason City, Ia.	Mar. 22
June 1	Morgantown, W. Va. Adv. Apr. 12.	Apr. 12

FEDERAL GOVERNMENT WORK

Apr. 16	Tunnel, etc. — Mitchell, Neb.	Mar. 1
Apr. 16	Barges—Galveston, Tex. Adv. Mar. 22 to Apr. 12.	Mar. 15
Apr. 16	Ice-Making and Refrigerating Plant—Chelsea, N. Y.	Mar. 22
Apr. 17	Disposal Plant, etc.—Tobyhanna, Pa.	Mar. 29
Apr. 18	Monument — Plattsburg, N. Y. Adv. Mar. 22 to Apr. 12.	Mar. 22
Apr. 20	Dredging Pump—Jacksonville, Fla. Adv. Mar. 22 to Apr. 12.	Mar. 22
Apr. 20	Valves, etc.—Florence, Ala. Adv. Mar. 29 to Apr. 12.	Mar. 29
Apr. 20	Road—New Mexico	Apr. 5
Apr. 20	Cement—Nashville, Tenn.	Apr. 5
Apr. 23	Earthwork — Memphis, Tenn. Adv. Apr. 5 and 12.	Apr. 5
Apr. 23	Steel Bars, etc. — Memphis, Tenn. Adv. Apr. 5 and 12.	Apr. 5
Apr. 24	Road—Nevada	Apr. 12
Apr. 25	Hospital Buildings — Chelsea, N. Y.	Apr. 5
Apr. 25	Mechanical Equipment—Chelsea, N. Y.	Apr. 5
Apr. 25	Reconstructing Dike — Mare Island, Calif.	Mar. 22
Apr. 25	Steel Gates — Nashville, Tenn. Adv. Apr. 5 and 12.	Apr. 5
Apr. 25	Laboratory — Anacostia, D. C.	Apr. 12
Apr. 26	Road—Nevada	Apr. 12
Apr. 27	Barges—Portland, Ore.	Apr. 5
Apr. 27	Boilers—Florence, Ala.	Apr. 5
Apr. 30	Barges—Jacksonville, Fla. Adv. Apr. 5 and 12.	Apr. 5
Apr. 30	Dredging—Baltimore, Md. Adv. Apr. 5 and 12.	Apr. 5
Apr. 30	Post Office—Vernal, Utah.	Apr. 5
Apr. 30	Dredging—Baltimore, Md.	Apr. 5
May 3	Superstructure — Detroit, Mich. Adv. Apr. 5 and 12.	Apr. 5
May 3	Boilers—Mankato, Minn. Adv. Apr. 12.	Apr. 12
May 7	Boilers—Oteen, N. C.	Apr. 12
May 8	Boiler — Saratoga Springs, N. Y. Adv. Apr. 12.	Apr. 12
May 10	Post Office — Cordova, Alaska	Jan. 25

Bids Close		See Eng. News-Record
May 11	Dredging — New York, N. Y. Adv. Apr. 12.	Apr. 12
May 11	Bear Trap Leaves—Louisville, Ky.	Apr. 12
May 12	Metal Work—Key West, Fla. Adv. Apr. 12.	Apr. 12

MISCELLANEOUS

Apr. 13	Bituminous Material — Albany, N. Y. Adv. Apr. 5 and 12.	Apr. 5
Apr. 16	Crane—Pasadena, Calif.	Apr. 12
Apr. 16	Granite Paving Blocks — Minneapolis, Minn.	Apr. 12
Apr. 17	Cable—Hartford, Wis.	Apr. 12
Apr. 18	Road Oil—Clayton, Mo.	Apr. 5
Apr. 18	Road Oil—Nashville, Tenn.	Apr. 12
Apr. 18	Heating and Ventilating Apparatus, etc. — Brooklyn, N. Y.	Apr. 12
Apr. 19	Borings—New York, N. Y.	Apr. 12
Apr. 19	Sheet Piling—New Orleans, La.	Apr. 12
Apr. 21	Lighting System — Fairport (Fairport Harbor P. O.), O. Adv. Apr. 12.	Apr. 12
Apr. 24	Stadium—Lincoln Neb.	Apr. 12
Apr. 24	Tar and Asphalt — Trenton, N. J.	Apr. 12
Apr. 26	Ferry Boats—New York, N. Y.	Apr. 12
Apr. 30	Trap Rock, etc.—Trenton, N. J. Adv. Apr. 12.	Apr. 12

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Corning—Plans extending water system at Riverside. $15,000-$18,000. A. H. Hassey, village pres.

N. Y., Jamestown—Bd. Water & Light Comn., City Hall, plans to purchase 8,000 ft. 6 in. and 1,000 ft. 4 in. c.i. pipe.

N. Y., Savannah—Voted additional $15,000 bonds for new water system. (Voted $45,000 bonds Jan. 10.) J. P. Sawyer, village engr.

N. Y., Silver Creek — Plans filtration plant. $50,000. Engineer not selected.

Pa., Allentown—Plans to lay 6-8 mi. mains. $50,000. T. J. Roth, supt. Water Dept.

Pa., Harrisburg—Takes bids between May 1 and 15 at Council Chamber, Dauphin Bldg., extending and improving waterworks. Contracts E. and F. J. H. Fuertes, 140 Nassau St., New York City, consult. engr.; adv. this issue.

Pa., North East—Voted $50,000 bonds new reservoir. $50,000. Engineer not announced.

Md., Frederick — Making plans storage reservoir, 30-50 m. g. capacity, in Catoctin Mts., 18 mi. northeast of here. $100,000. E. C. Crom, city engr.

Md., Williamsport—Having preliminary surveys made waterworks. $100,000. Norton, Bird & Whitman, Munsey Bldg., Baltimore, engrs. Noted July 6.

La., Lecompte—Voted $40,000 bonds, extending waterworks plant. Swanson-McGraw Inc., United Fruit Bldg., New Orleans, consult. engrs. Noted Nov. 30.

La., Morganza—May 15 to vote on $18,000 bonds for new waterworks plant. Swanson-McGraw Inc., United Fruit Bldg., New Orleans, consult. engrs.

O., Columbus—See "Streets and Roads."

Ill., Brookfield — Soon takes bids c.i. mains. $56,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ill., Western Springs — Soon takes bids waterworks extension. $30,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ia., Walnut—Apr. 17 to vote $18,000 bonds waterworks improvements.

Kan., Cottonwood Falls — Soon takes bids waterworks improvement. $15,000 bonds voted. P. L. Grady, Crawford Bldg., Topeka, engr.

S. D., Winner—Voted $25,000 bonds to improve waterworks, incl. wells and supply tank. T. G. Councillor, city aud.

Tex., Corsicana—Voted $15,000 bonds waterworks extensions, mains, etc., also $10,000 for sewers. J. W. Harrison, city engr. Noted Mar. 15.

Tex., Dallas — Voted $5,000,000 bonds waterworks, dams, mains, etc. G. D. Fairtrace, city engr.

Tex., Granbury — Voted $47,000 bonds waterworks improvements. Municipal Eng. Co., Dallas, (street address not available), consult. engrs. Noted Mar. 15.

Okla., Broken Arrow — Voted $16,500 bonds 7,000 ft. 6-10 in. c.i. mains, etc. Wood & Witten, 246 Lynch Bldg., Tulsa, engrs.

Okla., Ft. Gibson—Voted $15,000 bonds for 8,000 ft. 4-8 in. c.i. pipe. Macintosh Co., 1st Natl. Bank Bldg., Oklahoma City, engrs.

Ariz., Chandler—Plans election to vote on $50,000 bonds for water system improvements.

Wash., Everett — Rejected bids opened Mar. 27, laying mains north and south through city, in connection with proposed $350,000 water improvements. Will readvertise at once. C. Klapp, water supt.

Wash., Millwood — See "Industrial Works."

Calif., Pomona—Consolidated Water Co. making plans 2 concrete reservoirs in San Jose Hills Dist., 500,000 gal. and 1,500,000 gal. capacity, 10,000 ft. pipe line and pumping plant will be installed later. Private plans.

Ont., Ottawa—Voted $120,000 bonds for extending mains, 30,000 ft. 6 in. c.i. pipe, etc. A. F. Macallum, city engr.

N. S., Sydney—Takes bids about Apr. 15, improvements to waterworks system. $80,000. A. Fitzgerald, mayor.

BIDS DESIRED

N. Y., Locust Valley—Apr. 24, by Bd. Water Comrs., Matinecock Neighborhood House, waterworks system. S. B. Bowne, Post Office Bldg., Mineola, engr.; adv. this issue.

N. J., Belmar—Apr. 24, 1 deep well pump; adv. this issue.

W. Va., Cameron—Apr. 15, ditching and laying 14,000 ft. 4 in. and 2,000 ft. 6 in. mains. J. S. Fish, city clk.

Tenn., Memphis—May 12, by Bd. Comrs. Memphis Artesian Water Dept., cast iron, steel and vitr. clay pipe lines, Contrs. 14 and 15. Fuller & McClintock, 206 Walsix Bldg., Kansas City, Mo., engrs.; adv. this issue.

O., Columbus—See "Streets and Roads."

Wis., Beloit—See "Sewers."

Wis., Hartford—Taking bids one steam driven, 2 stage air compressor, 500 cu.ft. fill air per minute, final gauge pressure 100 lb., to operate at 150 lb. steam pressure; one compound steam driven general service pump, 500 g.p.m., steam pressure 150 lb.; one steam turbo driven centrifugal pump, 500 g.p.m., steam pressure, 150 lb. W. Radke, city clk. Private plans.

Tex., Sweetwater—City Com. taking bids mechanical filter plant, 2 settling basins. $35,000. G. H. Sheppard, mayor. Engineer not announced.

Calif., Costa Mesa — Apr. 18, by Dirs. Newport Heights Irrigation Dist., furnishing and laying 2,575 ft. 4 in., 615 ft. 6 in., 22,993 ft. 8 in., 27,039 ft. 10 in., 9,192 ft. 12 in., 766 ft. 14 in. and 8,471 ft. 18 in. double dipped and wrapped riveted pipe, all 12 gage; 5,820 ft. 2 in. and 1,220 ft. 4 in. standard screw pipe; furnishing special fittings, gate valves, culverts, rein.-con. trestle, 734,000 gal. riveted steel stand pipe, 2 turbine pumps direct connected to motors, 500 and 800 g.p.m. respectively, 2 centrifugal pumps with belt connected electric motors, 500 and 800 g.p.m. respectively. P. E. Kressly, I. W. Hellman Bldg., Los Angeles, engr.

BIDS RECEIVED

N. Y., St. George—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, Apr. 3, mains in Midland and Maple Aves., 2nd, 3rd, 4th, 5th, 6th, 7th, 8th and 9th Sts., here, from Knight & Demicco, 448 East Tremont Ave., New York, $29,492; Paladino Contg. Co., 437 East 120th St., New York, $33,227; N. De Stefano, 257 Glenn Ave., Tompkinsville, $34,134. Noted Mar. 29.

Calif., Los Angeles — Los Angeles Co. Water Dist. No. 5, waterworks system near Compton; c.i. pipe and fittings, from United States Cast Iron Pipe & Fdry. Co., Wright & Callendar Bldg., Prop. 1, $25,136 and $25,067, Prop. 2, $26,161 and $26,080; wrought iron pipe, from Crane Co., 319 East 3rd St., $656; steel tank and tower, from Pittsburgh-Des Moines Steel Co., Rialto Bldg., San Francisco, with elliptical tank 75,000 gal. $9,160, 100,000 gal. $10,155, with hemispherical tank 75,000 gal. $8,825, 100,000 gal. $9,790; pumping equipment, from Shinn-Holtz-Lyon Co., 1604 Santa Fe St., Prop. 1, Plants A and B, $2,990; Byron-Jackson Co., 303 East 3rd St., Prop. 2, Plant A, $1,597; distributing system, from M. Mattick, 1436 West 51st St., low for trenching, excavation and pipe laying (bid not available); Prendergast Constr. Co., 311 South Spring St., low to construct pump house, pipe ducts, cleaning bed, etc. Noted Mar. 15, under Compton.

CONTRACTS AWARDED

N. Y., Niagara Falls—E. J. Fort, city mgr., Gluck Bldg., three 10 in. and sixty-three 6 in. valves, to Rensselaer Valve Co., 50 Church St., New York, $53 and $22.26 respectively; 5 hydrants, to R. D. Wood, 400 Chestnut St., Phila., $66.30; 69.51 tons c.i. pipe and 5,650 lb. specials, to J. B. Clow & Sons, 824 Walnut St., Phila., $54.75 and $0.06 respectively. Noted Mar. 15.

W. Va., Wheeling—Filtration system. Contr. 2, intake pier, suction pipe and tunnel, to J. F. Casey & Co., Union Ave., Pittsburgh, Pa., $299; Contr. 4 pump station and filter plant, superstructures to Engstram & Knapp, Wheeling (street address not available), $184,130; Contr. 5, elevators for filter plant and pump station, to Otis Elevator Co., Wheeling Steel Corp. Bldg., Wheeling, $11,160; Contr. 7, boilers for heating system, to Bartley O'Neil & Co., $4,240; Contr. 8, pump station piping, to Pitt Constr. Co., Fulton Bldg., Pittsburgh, Pa., $32,000; Contr. 9, filter equipment, to M. L. Bayard & Co., Pennsylvania Bldg., Phila., Pa., $93,710; Contr. 10, steel filter wash tank, to Chicago Bridge & Iron Wks., 608 South Dearborn St., Chicago, $9,500; Contr. 11, filter plant conveyor system, to Stephens-Adamson Co., Oliver Bldg., Pittsburgh, Pa., $9,470; Contr. 12, excavations and foundations for reservoir tanks, Contr. 13, reservoir tanks, Contr. 14, force mains, Contr. 22, laying force main from Fulton to Elm Grove, Greggsville and Mt. de Chantal extensions, Contr. 23, laying mains in Warwood, to Pittsburgh-Des Moines Steel Co., Curry Bldg., Pittsburgh, Pa., $42,930, $5,380, $311,850, $125,005 and $8,400 respectively; Contr. 15, c.i. pipe, to United States Cast Iron Pipe and Fdry. Co., American Trust Bldg., Birmingham, Ala., $119,907; Contr. 16, gate valves for mains, pumping and filter plant, Contr. 18, air relief valves, Contr. 20, fire hydrants, to Ludlow Valve Mfg. Co., 1st Natl. Bank Bldg., Pittsburgh, $40,563, $1,102 and $57 respectively; Contr. 17, check valves for pumping station and Contr. 19, hydraulic plug valves for filter plant, to Michigan Valve & Fdry. Co., 3631 Parkinson St., Detroit, $4,163 and $2,072 respectively; Contr. 21, sluice gates for intake and filter plant, to Coldwell-Wilcox Co., South End, Newburgh, N. Y., $6,499. Noted Mar. 8.

Wis., Milwaukee—Laying 81,000 ft. 6-16 in. c.i. pipe, from F. E. Kaminski, Berlin, $69,180; E. O'Donnell, 1219 Clybourn St., $130,000; J. B. Forrestal Co., 215 15th St., $157,350.

Wis., Milwaukee—For Riverside Pumping Station, 130 x 240 ft. 56 ft. high, brick, concrete and steel, foot Chambers St., to P. Riesens Sons, 1018 Humboldt Ave., $434,791. Noted Apr. 5.

Wis., Waupun — Erecting 80,000 gal. steel tank on 77 ft. steel tower and 60,000 gal. steel tank on existing tower, to Pittsburg-Des Moines Steel Co., 38 South Dearborn St., Chicago, Ill., $10,100. Noted Mar. 8.

Minn., North Branch—Distribution system, to W. C. Fraser, 810 Guardian Life Bldg., St. Paul, $37,024. Noted Mar. 15.

Kan., Smith Center—Waterworks improvements, to E. K. Ladd, 3229 Harrison St., Kansas City, Mo., low service pump $1,390, low service pump house $1,150, 12 in. outlet sewer $0.83, concrete $27.80, etc., total $53,550. Noted Mar. 22.

Tex., Shamrock—Gravity pipe line and reservoir, to R. M. Irick & Son, Plainview, $98,670. Engrs. est. $100,000. Noted Mar. 1.

Wash., Everett — For 20,000,000 gal. reservoir, 400 ft. square basin, concrete lined, etc., to T. M. Morgan, Everett, $150,635. Engrs. est. $150,000. Noted Feb. 8.

Ont., Whitby—W. J. Luke, chn. Pub. Utilities Comn., slow sand filter system, general contract for concrete work, excav., etc. to J. W. Bowser Co., 136 Confederation Life Bldg., Toronto, $26,000; c.i. pipe and specials to Natl. Iron Wks., Cherry St., Toronto, $1,816; gate valves to T. McAvity & Sons, St. John, N. B., $704; sewer pipe to J. McIntyre, Whitby, $659; pumps to Turbine Equipment Co. Ltd., 73 King St. W., Toronto, $2,170; screens and structural steel, to McGregor & McIntyre, Shaw St., Toronto, $575; sand washers, to J. Inglis Co., Strachan Ave., Toronto, $360.

Sewers

PROPOSED WORK

Mass., Andover—Town takes bids about May 15, outfall sewer from Shawsheen Village to Merrimack River, 24 in. c.i. and 30 in. tile. $215,000. Weston & Sampson, 14 Beacon St., Boston, consult. engrs.

N. Y., Binghamton—See "Streets and Roads."

N. Y., Johnson City—Plans sanitary and storm water sewers in Wheeler Tract Dist. To exceed $25,00. F. A. Tillman, comr. Pub. Wks.

N. Y., Lake George—Delaware & Hudson R.R., foot of State St., Albany, plans sewerage system, here. $30,000-$35,000. J. MacMartin, ch. engr.

Sewers (Continued)

N. J., Bloomfield—Preparing plans sanitary sewer in Myrtle Ave., Mill and Burch Sts. $25,000. E. Baechlin, Bloomfield, engr.

Pa., Erie—See "Streets and Roads."

N. C., Henderson — See "Streets and Roads."

Fla., Bartow—Election about May 1, to vote on $85,000 bonds sanitary sewers, mains, laterals and disposal plant. Burns & McDonnell, Interstate Bldg., Kansas City, Mo., engrs. Noted Mar. 22.

Tenn., Dayton—Plans to vote on $50,000 bond issue for complete sanitary sewerage system. A. P. Haggard, chn. Bd. Comrs.

Ky., Ashland — Plans sewerage system. $200,000 bonds sold.

O., Columbus—See 'Streets and Roads."

O., Columbus—Making plans 28,593 ft. 6-24 in. vitr. sewer extending from Wilson to Ohio Aves., $50,478; 5,357 ft. 8-10 in. cl. sewer in Campbell St., $8,124. R. H. Simpson, City Hall, engr.

O., Euclid—Preparing plans sewage disposal plant, $300,000. G. B. Gascoigne, 648 Leader-News Bldg., Cleveland, engr.

Ill., West Chicago—Soon takes bids storm sewers. $45,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ill., Western Springs—Soon takes bids sewer extension. $35,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Neb., Omaha—See "Streets and Roads."

Mo., University (St. Louis P. O.)—See "Buildings."

Tex., Corsicana—See "Waterworks."

Tex., Dallas—Voted $500,000 bonds for sewage disposal and $150,000 for sanitary sewers. G. D. Fairtrace, city engr. Noted Mar. 15.

Tex., Terrell—Terrell Sewerage Co. making plans 4 mi. sanitary sewer extensions. Probably do work by day labor. $25,000. M. A. Joy, engr. and supt.

Okla., Ft. Gibson—Voted $45,000 bonds for sewerage system and disposal plant, 25,000 ft. 6-12 in. vitr. clay pipe, Gant & Baker, 1st Natl. Bank Bldg., Oklahoma City, engrs.

Ariz., Chandler—Plans election to vote on $55,000 bonds for sewers.

Wash., Seattle—Received no bids Mar. 31, laying trunk sewer, 34th Ave. W., et al. Will readvertise. $87,513. J. D. Blackwell, city engr.

Calif., Eureka — Having plans prepared 1,200 ft. 30 in. and 400 ft. 42 in. precast cement iron pipe storm sewers. H. H. Hannah, city engr.

Calif., Paso Robles—Plans outfall sewerage system. To exceed $25,000. W. W. Hughes, city engr., authorized to appoint consulting engineer.

Ont., Bridgeburg—See "Ft. Erie."

Ont., Ft. Erie—Cities of Ft. Erie and Bridgeburg plan sewage plant, to exceed $50,000. Engineer not announced.

BIDS DESIRED

N. Y., Glens Falls—Apr. 25, by L. G. Boynton, city clk., furnishing sewer pipe, branches and fittings also constructing about 6¾ mi. 8-18 in. sanitary sewers, etc.; adv. this issue.

N. Y., Tonawanda—Apr. 21, by Town Bd., sewerage system, disposal plant and pumping station. G. C. Diehl, 575 Ellicott Sq., Buffalo, engr.; adv. this issue. Noted Mar. 1.

D. C., Wash.—Apr. 27, by Dist. Comrs., 509 Dist. Bldg., sewer and sewer invert. Apply at Room 427 Dist. Bldg.; adv. this issue.

Ala., Mobile—See "Streets and Roads."

O., Cleveland—Apr. 18, by Cuyahoga Co., 17,613 ft. 18-30 in. vitr. clay trunk sewer in Ridge Rd. Impvt. 9, Sect. "A." $300,000. R. F. MacDowell, Court House, engr.

O., Columbus—See "Streets and Roads."

O., Lima—Apr. 28, at office C. A. Bingham, city mgr., Main St. and Public Sq. Relief Sewers, Contr. 13. B. F. Darling, supervy. engr.; adv. this issue.

Ill., Chicago — Apr. 17, by Bd. Local Impvts., 207 City Hall, sewers. $250,000. C. D. Hill, ch. engr.

Wis., Beloit—Apr. 16, at office Pub. Wks. Com., 270 sewer services, 280 water services and 220 gas services in various streets; 4,321 ft. 4-12 ft. cut for 8 in. sewer and 918 ft. 8-12 ft. cut for 10 in. sanitary sewers in various streets. G. E. Hebbink, city engr.

Wis., Milwaukee — Apr. 21, by J. H. Fowles, secy., Metropolitan Sewerage Comn., 508 Market St., main sewer from end Contr. 1 on State St. to county institutional buildings, 3,720 lin.ft. 36 in. concrete and 4,924 lin.ft. 24 in. terra cotta pipe. T. C. Hatton, c/o owner, engr.

Kan., Independence—May 3, by G. H. Krienhagen, city clk., sewage disposal plant, 9,540 cu.yd. earth and 500 cu.yd. rock excav., 943 cu.yd. rein.-con., 62,000 lb. reinforcing, etc. H. H. Crawford, city engr. Noted Mar. 1.

Calif., Los Angeles—May 7, by Bd. Pub. Wks., furnishing machinery in connection with Hyperion Sewage Treatment Plant (south plant), incl. 8 sewage screens; bucket elevators and appurtenant machinery.

BIDS RECEIVED

N. Y., Blasdell—Village Trustees, sewage disposal plant, from G. W. Moore, 82 Richfield Ave., Buffalo, $69,557, Crooker & Carpenter, Niagara Life Bldg., Buffalo, $73,973, W. A. Lose, Tonawanda, $76,900; sewerage system, from M. Heltz, 960 Ridge Rd., Lackawanna, $82,582, W. J. Erwin & Sons, Greenville, O., $89,391, Fahning Bros., 460 Leroy Ave., Buffalo, $103,632. Noted Mar. 15.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, Apr. 4, sewers in (1) Schenectady Ave., engrs. est. $14,151 (2) 84th St., $6,906 (3) Highlawn Ave., $4,510 (4) Empire Blvd., $3,554 (5) Troy Ave., $3,179 (6) Lott Ave., $1,001 (7) Maple St., $892, from B. Peconi & Sons (1) 88% engineer's estimate (4) 110% (6) 120%; M. Paino, 32 Court St., (1) 92% (2) 104.4%; J. Jennings, Belle Harbor, (1) 97% (4) 107%; M. Tozzi, (2) 93% (3) 97% (5) 103% (7) 109%; G. L. Schrade, 693 Flatbush Ave., (2) 98.62%; Tomasetti & Co., Inc., 1133 60th St., (3) 88.5% (5) 88%; Nazzaro & Querriero, (3) 98%; D. Bonnacci, (4) 114%; Manmill Constr. Co., (5) 100% (6) 109¼% (7) 125%; P. Muscio, (6) 98% (7) 114%. Noted Mar. 29.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Apr. 9, sewers in (1) Goodrich St. (2) 77th St. (3) 101st Ave. (4) 78th St. (5) 89th St. (6) 117th St. (7) 130th St., from Green Contg. Co., 734 Vernon Ave., Brooklyn, (1) $9,869 (6) $13,105; E. J. Kelly, Jr., Flushing, (1) $14,839 (2) $4,250 (3) $4,586 (4) $2,664 (5) $2,683 (6) $11,653 (7) $8,669; Kennedy & Smith, Inc., 93 Amity St., Flushing, (1) $15,762 (2) $7,053 (3) $6,477 (4) $3,600 (5) $3,217 (6) $11,786 (7) $10,352; Seaside Contg. Co., 193 Beach 108th St., Rockaway Beach, (2) $4,643 (3) $4,871 (4) $2,714 (5) $2,949 (7) $8,138. Noted Apr. 5.

O., Cleveland—For 3,450 ft. 18-24 in. vitr. clay sewer in Euclid Ave., from D. Zullo, 10614 Frank Ave., $31,214. Noted Mar. 15.

CONTRACTS AWARDED

Pa., Altoona—See "Streets and Roads."

Mich., Detroit—Lateral sewer 3820, to W. Blanck & Co., 827 Ford Bldg., $21,512; Blaine Ave. Arm West, to J. Wagner, 859 West Boston Blvd., $28,530; Blaine Ave. Arm East and McGraw Ave. Arm, to R. D. Baker, 1631 Elmhurst Ave., $78,370 and $127,846 respectively. Noted Mar. 29.

Ill., Park Ridge—Rein.-con. and tile pipe sewerage system, to J. L. Walker, 231 Court St., Hamilton, O. Engrs. est. $300,000. Noted Feb. 8.

Minn., Hutchinson — See "Streets and Roads."

Tex., Nocona—For 36,800 ft. 6-10 in. sewer pipe, 58 manholes, 24 lamp holes, 3 disposal plants, to Winslett-Eldridge Co., Nocona, $47,851. Engrs. est. $50,000. Noted Mar. 1.

Calif., Los Angeles—Temporary outfall sewer from Higeura St. to Overland Ave., brick concrete pipe, to C. E. Green, Grosse Bldg., $84,000. Noted Mar. 29.

Waste Disposal

PROPOSED WORK

Mo., Kansas City — Will sell $250,000 bonds for garbage incinerator plant. Total cost $300,000. R. Waddell, 800 Graphic Arts Bldg., city engr.

Bridges

PROPOSED WORK

Mass., Boston—State and city plan Cottage Farm Bridge. Cost to exceed $1,000,000. Engineer not announced. Noted Oct. 27, 1921.

Pa., Oil City—City, Venango Co. (Franklin), and State plan large suspension bridge, modern design, steel and other materials, over Allegheny River, here. Engineer not announced.

N. C., Murfreesboro—State Hy. Comn., Raleigh, plans bridge over Meherrin River, here, C. M. Upham, state highway engr.

Alabama—State Hy. Dept., Montgomery, plans concrete and steel bridges on Jasper-Marion Co. line Rd., Walker Co., $100,000; 1,600 lin.ft. bridges on Demopolis-Linden Rd., Marengo Co., one 102 ft. steel span, remainder treated timber on pile bents. W. S. Keller, state highway engr.

Tenn., Chattanooga—City and Southern Ry., 1010 Market St., plan viaduct on 11th St. $325,000. R. Hooke, city engr.

O., Dayton—Montgomery Co. plans 1 span, 150 ft. steel truss highway bridge, 18 ft., over Miami River. $75,000. W. O. Pease, co. surv.

Indiana—State Hy. Comn., Indianapolis, plans 240 ft. steel span, State Project 17 A, Lake Co., $80,000; steel truss, five 150 ft. spans, State Project 21 A, Jackson Co. W. T. Titus, State Hy. Comn., bridge engr.

Ind., Bedford—State Hy. Comn., Indianapolis, had plans prepared 1,175 ft. steel truss bridge, four 200 ft. and three 125 ft. spans, rein.-con. footings on piling, 2 mi. south of here over east fork of White River. $300,000. W. J. Titus, c/o State Hy. Comn., Indianapolis, bridge engr.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, plans 325 ft. bridge, one 125 ft. steel trus span and five 40 ft. rein.-con. deck girder spans, over Little Muddy Creek, 685 ft. bridge, one 125 ft. steel truss and fourteen 40 ft. rein.-con. girder spans over Big Muddy Creek, 840 ft. bridge, twenty-one 40 ft. rein.-con. deck girder spans, over overflow channel of Little Wabash River, all in Clay Co. G. F. Burch, state bridge engr.

Minnesota—State Legislature authorized Minneapolis and St. Paul to issue up to $800,000 bonds each, for rein.-con. bridge over Mississippi River at Federal high dam. $1,500,000. C. M. Babcock, 1246 University Ave., St. Paul, chn. construction com. Engineer not selected.

Minnesota—See "Streets and Roads."

Arkansas—State Legislature, Little Rock, passed bill for viaduct at west terminus of Harahan Bridge out of Memphis. $1,000,000. Tennessee will contribute $250,000 and Government about $500,000.

Texas—See "Railways."

Colorado—State Hy. Comn., Denver, appropriated $245,300 for bridges, etc., in Summit, Delta, Archuletta, Jefferson and Adams Counties. L. D. Blauvelt, Denver, ch. engr.

BIDS DESIRED

Pa., Blossburg—Tioga Co. (Wellsboro) taking bids new rein.-con. bridge over Tioga River on Williamson Rd., to exceed $25,000.

Pa., Jersey Shore—Apr. 27, by Comrs. Lycoming and Clinton Counties, at office Comrs. Lycoming Co., (Williamsport) bridge over Pine Creek, near here. M. C. Krause, Susquehanna Trust Bldg., engr.; adv. this issue.

Pa., Pittsburgh—Apr. 19, by Allegheny Co., 770 ft. rein.-con. bridge, 30 ft. roadway, 11 ft. sidewalk, over Jacks Run on California Ave., to connect city with Bellevue. $400,000.

West Virginia—See "Streets and Roads."

Florida—Apr. 20, by State Rd. Dept., Tallahassee, 3,315 ft. timber bridge over Popes Lake, Project 568, being west approach to Victory Bridge, Jackson Co. W. F. Cocke, state highway engr.

Alabama—May 3, by W. S. Keller, state highway engr., Montgomery, 914 ft. bridge over Tallapoosa River between Alexander City and Jacksons Gap, Tallapoosa Co., six 150 ft. steel spans on concrete piers.

Louisiana—Apr. 24, by State Hy. Dept., Reymond Bldg., Baton Rouge, following bridges on highways in Tangipahoa Parish, two 95 ft. and one 114 ft. creosoted timber trestles, one 409 ft. bridges over Tangipahoa River, incl. one 140 ft. steel truss span on concrete piers and 269 ft. creosoted timber approaches, also grading, gravel surfacing, etc., Hammond Covington Highway, Federal Aid Project 128, Tangipahoa Parish, J. M. Fourmy, ch. engr.

Indiana—State Hy. Comn., Indianapolis, taking bids one 198 ft. through truss span over Pigeon Creek, 2 mi. north of Evansville, Vanderburgh Co., Federal Aid Project 36-1; one 198 and one 150 ft. through truss spans over Eel River, 5 mi. south of Clay City, Clay Co., Federal Aid Project 53-1; also number smaller bridges. W. J. Titus, bridge engr.

Michigan—Apr. 20, by State Hy. Dept., Lansing, 85 ft. 9 in. pony truss, 27 ft. roadway, Bridge 820,303, near Dearborn, 724 cu.yd. rein.-con., 190,170 lb. steel, 27,300 lb. reinforcing, also two 43 ft. 8 in. T beams, 28 ft. roadway, Bridge 821,604 near Redford, 700 cu.yd. rein.-con., 132 cu.yd. concrete, 45,575 lb. reinforcing. F. F. Rogers, comr.

Wisconsin—See "Streets and Roads."

Kan., Ft. Scott—Apr. 20, by C. Culbertson, clk. Bourbon Co., 2 rein.-con. deck

Bridges (Continued)

girder span bridges, one to have two 35 ft. spans and other two 45 ft. spans, on Ft. Scott Wichita Rd., Sect. A, Federal Rd. Project 33. B. Boyle, co. engr.

S. D., Hot Springs—Apr. 19, at office Auditor Fall River Co., three 94 ft. Howe trusses and fourteen 15 ft. standard trestles spans over Cheyenne River, 201.6 cu.yd. Class A concrete, 6,240 lb. structural and 13,075 lb. reinforcing steel, 98,858 ft. lumber, etc.

Tex., Hondo—See "Streets and Roads."

Calif., Fresno—Apr. 27, by Supervs. Fresno Co., 4 rein.-con. bridges on Sierra to Sea Highway. To exceed $25,000. C. P. Jensen, Cory Bldg., co. surv.

Calif., San Anselmo—Apr. 30, by A. W. Studley, town clk., bridges in various sections of town, 1,224 cu.yd. foundation excav., 50,550 cu.yd. concrete, 125,300 lb. reinforcing and 8,900 structural steel, 864 sq.ft. macadam, etc. To exceed $50,000.

BIDS RECEIVED

O., Painesville — Lake Co., 450 ft. concrete bridge, to have two 90 ft. spans, over Grand River, from N. R. Porterfield, 411 Federal Bldg., Youngstown, $130,000; Rice Jones Co., Union Bldg., Cleveland, $132,000. Engrs. est. $155,000.

Colorado—See "Streets and Roads."

CONTRACTS AWARDED

Pa., Curwensville—Buffalo, Rochester & Pittsburgh R.R., 155 West Main St., Rochester, N. Y., 65 ft. span single track steel bridge with concrete abutments, near here, to Miller Constr. Co., Lock Haven. Engrs. est. $75,000.

Alabama—State Hy. Dept., Montgomery, treated timber bridges on treated timber piles, on road from Tuscaloosa Co. line to Carrolton, Pickens Co., to E. Pettus, Montgomery, (street address not available), $59,676. Noted Mar. 29, under "Streets and Roads."

Indiana—State Hy. Comn., Indianapolis, substructure for one 60 ft. steel truss over Otter Creek, Warrick Co., to B. H. Hawkins, Zionsville, $4,935, engrs. est. $5,128; rein.-con. arch, Orange Co., to R. H. King, Danville, $33,205, engrs. est. $33,820; rein.-con. slab and rein.-con. arch, Orange Co., to Cleary, Hailey & Barry, Lyric Bldg., Cincinnati, O., $6,953 and $15,356 respectively, engrs. est. $7,726 and $15,904 respectively; one 28 ft. rein.-con. girder, one 40 ft. steel truss and one 30 ft. arch extension, Vanderburg Co., one 60 ft., one 55 ft., and one 72 ft. steel truss, and one 28 ft. rein.-con. girder, Gibson Co., to M. & P. Contg. Co., Rockport, $44,008, engrs. est. $45,131; one 84 ft. steel truss and one rein.-con. box, Morgan Co., 2 rein.-con. slabs, Greene Co., and rein.-con. slab, Gibson Co., to Vincennes Bridge Co., Vincennes, $14,438, $5,357 and $2,161 respectively, engrs. est. $14,495, $5,374 and $2,190 respectively; 1 rein.-con. girder and 1 rein.-con. box, Daviess Co., to J. F. Hopkin & Son, Loogootee, $5,689, engrs. est. $6,429; rein.-con. girder, Morgan Co., to W. E. Potter, Paragon, $3,120, engrs. est. $4,194; 3 rein.-con. slabs, Delaware Co., to J. Heitzman, Union City, $5,985, engrs. est. $6,832; 3 rein.-con. slabs, Owen Co., to D. Y. Stout, 1006 West Main St., Crawfordsville, $4,929, engrs. est. $6,240. Noted Mar. 15.

Mich., Detroit—Two 120 ft. steel pony truss bridges on Five Mile Rd. and Warren Ave., 628,293 lb. steel, to Amer. Bridge Co., 2273 Beecher Ave., $43,092. Noted Mar. 29.

Ia., Clarion—To Iowa Bridge Co., 1263 East 19th St., Des Moines, 10 I beams and 1 pier, $21,669; A. J. Carpenter, Woolstock, 27 box culverts and extensions, $8,705.

Ia., Montezuma — Poweshiek Co., to Wickes Eng. and Constr. Co., 418 Polk Bldg., Des Moines, 6 concrete box culverts, one 16 x 24 ft. I beam span, one 18 x 40 ft. and one 16 x 70 ft. pony truss, re-erecting one truss, $17,950; J. T. Grose, Decorah, 5 concrete box culverts and one 16 x 30 ft. I beam span, $7,677; C. L. Schouboe, 1543 33rd St., Des Moines, 2 concrete box culverts, one 16x20 ft. and one 18 x 32 ft. I beam span, one 18 x 70 ft. pony truss, $15,800. Noted Mar. 15.

South Dakota—State Hy. Dept., Pierre, concrete and steel bridge, Charles Mix Co., to Diamond Eng. & Constr. Co., Grand Island, Neb., 4,101; bridge in Bon Homme and Hutchinson Counties, to Federal Bridge Co., 1002 Bd. Trade Bldg., Des Moines, Ia., $8,119 and $51,241 respectively; bridge in Moody Co., to J. C. Sorensen, Trent, $4,417; bridge in Brookings Co., to Great Northern Bridge Co., 225 Kasota Bldg., Minneapolis, Minn., $8,015; two bridges in Beadle Co., one on Project 91 and other on Project 121, to Schreiber Eng. Co., Watertown, $23,558 and $7,723 respectively; bridge in Lyman Co., to Mobridge Constr. Co., Mobridge, $16,200; bridge in Potter Co., to M. A. Stump, Mobridge, $3,862. Noted Mar. 15.

Oregon—See "Streets and Roads."

Ore., Klamath Falls—State and Klamath Co., 160 ft. concrete bridge, four 40 ft. spans, over Klamath River, at Spenders, to Union Bridge Co., foot of Fenwick St., Portland, $51,510.

Ont., London—Ontario Hy. Comn., 27 culverts and cement bridges on Longwoods Rd., to A. Kirkpatrick, Petrolea. Engrs. est. $45,000.

Dams

PROPOSED WORK

N. C., Carthage—See "Miscellaneous."

Wis., Port Wing—See "Industrial Works."

Minn., Little Falls—See "Miscellaneous."

Tex., Dallas—See "Waterworks."

Wash., Millwood — See "Industrial Works."

California—See "Miscellaneous."

Railways

PROPOSED WORK

New York—Erie R.R., 50 Church St., New York City, plans improvements to its Cuba-Hunts cut-off line, incl. construction and extensions of sidings, etc. To exceed $25,000. Engineer not announced.

New York—New York State Rys. plan track extensions on North Madison St., Rome. To exceed $25,000. B. E. Tilton, 1901 Sunset Ave., Utica, genl. mgr.

Missouri — Missouri Supreme Court ordered Missouri Pacific R.R., Ry. Exch., St. Louis, to build viaduct to carry tracks of Oak Hill branch, over tracks of St. Louis & San Francisco R.R., west of Tower Grove Ave. $208,000-$400,000. Missouri Pacific R.R. will pay ⅜ of cost and St. Louis & San Francisco R.R. balance. E. A. Hadley, ch. engr. of former.

Texas—International & Great Northern R.R., Mason Bldg., Houston, plans to expend $3,500,000 as follows; new steel $1,400,000, ballast $310,000, rebuilding bridges $280,000, fuel oil storage $100,000, shop and tools $250,000, passenger engines $310,000, freight rolling stock $490,000, work trains $100,000, miscellaneous work $260,000. F. S. Schwinn, ch. engr.

Oklahoma — Ponca City Oil Field R.R. (recently organized), c/o Marland Oil Co., Ponca City, plans railroad from Ponca City to connect with Rock Island System at Billings. $600,000.

Nevada—See "Eureka, Nev. under Industrial Work."

California — See "Miscellaneous" under San Diego.

Canada—Canadian Pacific Ry., Windsor St. Sta., Montreal, Que., plans 100 mi. new railroad in provinces of Saskatchewan and Alberta as follows:—22 mi. from Kipp to Bow River, 25 mi. from Archive to Wymark Ranch, 50 mi. from Tuffnell to Prince Albert. $4,000,000 to $5,000,000. J. M. R. Fairbairn, ch. engr.

Ontario—Hydro Electric Power Comn., 190 University Ave., Toronto, plans single track electric railway in Windsor along Parent Ave., Ottawa and Erie Sts., to Ouellette Ave. $132,000. F. A. Gaby, ch. engr.

Ontario—Hyde Electric Power Comn., 190 University Ave., Toronto, plans 10 mi. track from Humber Bay to Port Credit. 60 or 80 lb. rails. $150,000. F. A. Gaby, ch. engr.

British Columbia—Kettle Valley R.R. c/o Canadian Pacific R.R., Winnipeg, Man., plans ballasting 20 mi. road, erecting telegraph line, small station and 2 section houses at Oliver, also 4 wooden spans to be replaced by steel ones on Nicola Branch, new coaling plant at Princeton. $70,000. J. M. R. Fairbairn, Montreal, Que., ch. engr.

BIDS DESIRED

California — Apr. 19, by F. W. Taylor, purch. agt. Southern Pacific R.R., 65 Market St., San Francisco, furnishing 1,100 gross ton first class No. 1, 50 lb. relaying rail with second hand angle bars, delivered f.o.b. Sisson, at rate of 250 gross ton per month.

CONTRACTS AWARDED

Massachusetts—Boston & Albany R.R., South Sta., Boston, laying 1 mi. new tracks, moving and raising 2 mi. track, 20,000 cu.yd. excav., 1,000 cu.yd. rein.-con. retaining walls, at freight yards, Springfield, to New England Constr. Co., 274 Main St., Springfield, $75,000. Engrs. est. $100,000.

Pennsylvania — Buffalo, Rochester & Pittsburgh R.R., 155 West Main St., Rochester, N. Y., 2 mi. single track, one steel and one wooden bridge, 50,000 cu.yd. excav., to Miller Constr. Co., Lock Haven.

Excavation, Drainage, Irrigation

PROPOSED WORK

North Carolina — State Fish Comn., Raleigh, plans to dredge and deepen various inlets to sounds in North Carolina, $500,000. J. K. Dixon, Trenton, chn. of Comn.

Ark., Blytheville—D.D. 7, Poinsette Co., soon takes bids flood gates and navigation lock, $200,000, also plans complete flood protection and river control system, ultimate cost $5,000,000. Price & Fairley, Blytheville, engrs.

California—See "Miscellaneous."

Calif., Monterey—See "Miscellaneous."

BIDS DESIRED

Fla., Sebastian—Apr. 15, by Sebastian Inlet Dist., 66,000 cu.yd. earth and 5,000 cu.yd. rock excav., 2,700 cu.yd. riprap, 4,000 tons jetty capping, etc.

Minn., Albert Lea—June 15 (change of date), by Freeborn Co., Judicial Ditch 2, Sects. O, T, L, L-1 and L-2, $64,394. J. H. Severson, Albert Lea, engr. Noted Mar. 22.

Calif., Costa Mesa—See "Waterworks."

BIDS RECEIVED

Mo., Winfield—Cap-au-Gris Drainage & Levee Dist., Mar. 31, levee and drainage ditches, 180,000 cu.yd. earth excav., etc., from Sternberg Dredging Co., Arcade Bldg., St. Louis, $25,486; McWilliams Dredging Co., McCormick Bldg., Chicago, $26,276; W. E. Callahan Constr. Co., Great Southwestern Life Bldg., Dallas, Tex., $27,747.

CONTRACTS AWARDED

N. Y., Buffalo—Dredging Buffalo Inner Harbor to completed contract depth for maintenance of channel, to Empire Eng. Co., Inc., North Tonawanda, $0.345 per cu.yu. Noted Apr. 5.

Fla., Lakeland—Lake Parker D.D. canal between Lake Parker and Lake Bonny, 50,000 cu.yd. earth and 40,000 cu.yd. rock excav., 200 cu.yd. rein.-con., to S. T. Buchannan & Son, Lakeland, $0.334 earth and rock.

Tex., Houston—Harris Co. D. D. 1, Court House, 500,000 cu.yd. earth excav., etc., to A. V. Hineman, Greenville, $30 per acre etc., total $60,000. Noted March 15.

Ontario—Draining 15,000 acres in Bassaquet, Stephens, West Williams and McGillivray Twps., incl. dredging, deep trench work, cement and tile, to Broderick Bros., c/o G. McCubbin, 135 King St., Chatham, $60,000.

Streets and Roads

PROPOSED WORK

Massachusetts—State Hy. Dept., Boston, making plans 1 mi. highway in Adams, 24 ft., concrete, $70,000; 3 mi. in Sheffield, 18 ft., concrete, $200,000; 1 mi. from Hinsdale to Washington, 18 ft., bituminous concrete, $35,000; 7 mi. from Hinsdale to Peru, 18 ft., bituminous macadam on concrete, $270,000. All foregoing in Berkshire Co. G. E. Curtis, 51 North St., Pittsfield, div. engr.

Mass., Dorchester (Boston P. O.)—See "Miscellaneous."

Connecticut—State Hy. Comn., Hartford, plans 40,000 sq.yd. 7 in. concrete paving in towns of Kent and Cornwall $150,000; 36,000 sq.yd. 8 in. concrete in Gilford, $200,000; 30,000 sq.yd. 8 in. concrete in Madison, $200,000; 8.5 mi., 20 ft., in Clinton and Old Saybrook, 8 in. concrete, $400,000; 7.6 mi., 20 ft., in Old Lyme-EastLyme and Waterford, 8 in. concrete, $350,000; 42,000 sq.yd. waterbound macadam on River Rd., in Sharon, $200,000; 50,000 sq.yd. waterbound macadam in Sharon and Salisbury, $330,000. State Hy. Comn., Hartford, engrs.

Conn., Easton—Bridgeport Hydraulic Co., Main and Gilbert Sts., Bridgeport, plans new layout of portion of North Park Ave. at Bucks Hill, and building new waterbound macadam roadway. $60,000. Work will be done by day labor. Private plans.

Conn., Manchester—Bd. Selectmen plans laying sidewalks and curbs. $30,000. J. H. Hyde, secy.

Conn., Meriden—Plans widening and paving portion East Main and State Sts. $60,000. J. A. Toner, City Hall, engr.

Conn., Rockville—Plans 4,000 lin.ft. sidewalk, concrete curbs and gutters. $25,000.

Conn., Winsted — Plans widening and paving 2,000 ft. South Main St., 32 ft., concrete. $35,000. W. C. Kemp, Winchester (Winsted P. O.) selectman.

N. Y., Binghamton—Plans paving Chenango, Center and State Sts., sandstone block and concrete, also 1,375 ft. sanitary sewer in State St. $75,000. W. E. Weller, city engr.

Streets and Roads (Continued)

N. Y., Lowville—Lewis Co. voted about $25,000 bonds for highway and rein.-con. Jyke on westerly side of Beeches Bridge. Address L. P. M. Gaylord, co. supt. highways.

N. Y., Rochester—C. A. Poole, city engr. and City Planning Comn. prepared plans widening Main St., 20 ft., between York St. and old canal. $1,100,000.

N. Y., Salamanca—Plans paving various streets, brick. $40,000.

N. Y., Syracuse — Bd. Pub. Wks. had plans paving Fellows Ave. and Eloise Terrace, bituminous macadam, asphalt and asphaltic concrete. To exceed $25,000. T. H. Mather, city engr.

Pa., Ebensburg—Comrs. Cambria Co., H. T. Jones, controller, opens bids about Apr. 25 17,902 ft. Ebensburg-Cresson Highway, brick on concrete. O. P. Thomas, Park Bldg., Johnstown, engr.

Pa., Erie—Plans asphalt pavements on Cherry St. $25,000, also East Side State St. sewer $7,000. West Side State St. sewer $5,700. F. G. Lynch, city engr.

Pa., Greenville — Mercer Co. (Mercer) plans resurfacing 1,800 ft. South Mercer St. through here. $25,000. F. P. Graham, Grove City, co. engr.

Pa., Sharon — Plans paving 3,500 ft. Cedar Ave., asphalt, bitulithic or brick. $35,000. L. E. Burnside, city engr.

W. Va., Logan—Logan Co. voted $600,000 bonds constructing Holden, Pigeon Creek and other roads. J. W. McClaren, co. engr.

North Carolina—State Hy. Dept., Raleigh plans grading and concrete or asphaltic paving 132.25 mi. roads in Rockingham, Moore, Montgomery, Cleveland, Wilkes, Forsyth, Davie, Richmond, Mecklenburg, Anson, Rockingham, New Hanover, Columbus, Brunswick, Wilson, Craven and Duplin Counties, $3,722,000; grading and topsoiling 123.8 mi. roads in Surry, Stokes, Hertford, Wilkes, Caldwell, Yancey, Polk and Davidson Counties, $709,000; grading and paving with penetration macadam 12 mi. roads Henderson Co., $120,000; grading and hard surfacing, probably sand asphalt, 29.1 mi. road in Pender, Onslow and Moore Counties, $291,000; penetration macadam paving 11.1 mi. roads in Alamance and Montgomery Counties, $170,000; hardsurfacing 14 mi. road Yadkin Co., $400,000; grading and hardsurfacing 2 mi. road Davidson Co., $60,000; grading, sand-clay surfacing or topsoiling 8 mi. road Rutherford Co., $48,000; asphaltic surface treating 4 mi. road Guilford Co., $25,000; grading 14 mi. road Madison Co., $40,000; grading and hardsurfacing, probably penetration macadam 4 mi. road Lee Co., $40,000, improving 13 mi. road, Union Co., $390,000. C. M. Upham, state highway engr.

N. C., Durham—Durham Co. plans grading and paving road from here to Chapel Hill Rd., 32.500-65,000 sq.yd. concrete or asphaltic paving, $100,000-$200,000. J. D. Spinks, Winston-Salem, engr.

N. C., Henderson—Plans street and sidewalk paving, and sewer extensions. $200,000.

N. C., Lincolnton—Lincoln Co. plans hard surfacing 7 mi. road from here to Reepsville $200,000. R. C. Goode, Lincolnton, chn. Bd. Co. Comrs.

Alabama—State Hy. Dept., Montgomery, plans grading and gravel surfacing 25 mi. road from Jasper to Marion Co. line, Walker Co., $350,000; 23 mi. Demopolis-Linden Rd., Marengo Co. W. S. Keller, state highway engr.

Tenn., Dayton—Plans to vote on $25,000 bond issue paving various streets. A. P. Haggard, chn. Bd. Comrs.

Kentucky — State Hy. Dept., Frankfort, plans waterbound macadam surfacing 20 mi. Mayo Trail from Louisa to Lawrence Co. line, Lawrence Co. J. S. Boggs, state highway engr.

Kentucky—State Hy. Dept., Frankfort, plans surfacing with waterbound macadam on prepared subgrade 9 mi. Western Dixie Highway, Hardin Co. J. S. Boggs, state highway engr.

Ky., Ashland — Plans paving various streets. $250,000.

Ky., Whitley City—McCreary Co. voted $200,000 bonds for road construction.

Ky., Winchester—Clark Co. plans constructing Louis Spriestersbach, Harry Bean and James Helzer Rds. $46,500 bonds sold.

O., Columbus—Making plans grading, curbing, laying necessary water services and sewer connections and paving 10,059 ft. Park, 18th and Hanford Sts., alley west of Hamlet St., alley west of 20th St., 2nd alley west of 4th St., alley west of Indiana Ave., alley north of Hanford St., alley north of Fulton St., from Parsons to Monroe Aves. and alley north of Fulton St. from 18th St., to east line of Lot 28, brick, concrete and asphalt. R. H. Simpson, city engr.

O., Dayton — Plans paving 7,500 sq.yd. Pursell Ave., vitr. brick or concrete, 4,500 lin.ft. cement curb and gutter. $39,084. I. E. Houk, city engr.

O., Grandview Heights (Columbus P. O.) —E. Gross, clk., soon takes bids grading and asphaltic concrete paving 13,232 ft. Northwest Blvd., Parkway N., Parkway Dr., Timberman Rd., Ridgeway Pl., Mulford, Thomas, Holley, Norton, Dover and Glenn Aves. $249,155. Burgess & Niple, 223 East Broad St., Columbus, engrs.

O., Steubenville—Jefferson Co. plans repairing and resurfacing Dillondale-Adena, Yellow Creek-Irondale and Croxtons Rds. $80,000. J. Leech, co. engr.

Ind., Indianapolis—Marion Co. plans grading and graveling 7 mi. Schafer Rd., 18 ft., $78,489; stone and gravel surfacing 2.9 mi. Chris Schilling Rd., 30 ft., $32,636. J. J. Griffith, co. engr.

Ill., Brookfield—Soon takes bids 25,000 sq.yd. concrete, $117,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ill., Elmhurst—Soon takes bids 25,000 sq.yd. concrete paving $120,000, 35,000 sq. yd. resurfacing, various types $125,000, concrete sidewalks $50,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ill., Harvey — Plans concrete paving Centre Ave. $36,000. A. W. Hersey, city engr.

Ill., Johnston City—Voted $62,000 bonds for hard surfaced roads.

Ill., La Grange—Soon takes bids 20,000 sq.yd. concrete paving. $75,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ill., Posen (Harvey P. O.)—Soon takes bids concrete sidewalks. $100,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Wis., Edgerton — Making plans paving with 1 course concrete, concrete curb and gutter, Victoria Rd., Albion, Blaine, North 3rd, Head, Catlin, Rollin, High and Perry Sts. $25,000. A. E. Ely, 29 West Milwaukee St., Janesville, engr.

Ia., Greenfield—Adair Co. plans grading and necessary bridge work on approximately 7.7 mi. primary road east of here. Iowa Hy. Comn., Ames, engrs.

Ia., Waukon—Allamakee Co. plans grading and necessary bridge work on 1 mi. Primary Rd. 51, about 10 mi. north of here, and 8 mi. on Primary Rd. 9 from county line east to here. Iowa Hy. Comn., Ames, engrs.

Minnesota—Following are county appropriations for road and bridge construction during 1923: Traverse Co. $40,000, H. Hanson, Wheaton, engr.; Lake Co., $40,000, H. C. Hanson, Two Harbors, engr.; Red Lake Co., $26,000, H. E. Palmer, Red Lake Falls, engr.; Todd Co., $64,600, A. M. Graves, Long Prairie, engr.; Steele Co., $60,000, R. W. Hosfield, Owatonna, engr.; Martin Co., $100,410, C. N. Krosch, Fairmont, engr.

Minn., Red Wing—Plans paving 39,133 sq.yd. various streets, 13,923 cu.yd. excav. $145,000. W. Geisheker, city engr.

Kan., Topeka—Soon takes bids paving 32 blocks, asphaltic concrete, and 8 blocks, brick. W. E. Baldry, city engr.

Neb., Omaha — City Clerk takes bids between May 1 and 15, 14,000 lin.ft. curb and gutter, 54,500 yd. vitr. brick, wood block, asphalt, concrete or bituminous concrete paving. $100,000. Prince & Nixon Eng. Co., 501 Peters Trust Bldg., engrs.

Neb., Omaha—George & Co., 901 City Natl. Bank Bldg., having plans prepared 50,000 yd. grading, curbing, guttering, sidewalks, sewers and paving. $100,000-$150,000. Rohrbough Eng. Co., 929 City Natl. Bank Bldg., engrs.

Mo., St. Louis—Soon takes bids paving 3,235 sq.yd. Smiley Ave. from Leola to Ivanhoe Sts., asphaltic concrete on concrete, $15,000; 16,505 sq.yd. Nebraska Ave., warrenite on concrete, $60,900; 3,630 sq.yd. Smiley Ave. from Ivanhoe Ave. to St. Louis & San Francisco Ry. right-of-way, 6 in. concrete, $16,800. W. W. Horner, City Hall, engr.

Mo., University (St. Louis, P. O.)—See "Buildings."

Tex., Corsicana — Voted $75,000 bonds street improvements permanent paving. J. W. Harrison, city engr. Noted Mar. 29.

Tex., Dallas — Voted $1,250,000 bonds street paving. G. D. Fairtrace, city engr.

Tex., Edinburg—Hidalgo Co. making plans grading and surfacing 1 in. asphalt topping on 6 in. concrete 13.8 mi. State Highway 12 from Donna to Cameron Co. line, 18 ft., $50,000, 9.61 mi. State Highway 12 from Pharr to Mamie, 18 ft., $425.-000; grading and gravel surfacing 14.8 mi. State Highway 12 from Mamie to Starr, 18 ft., $173,000. P. S. Devine, co. engr.

Tex., Galveston—Galveston Co. authorized issuance $335,000 warrants to fill and pave back seawall extension. E. B. Holman, co. judge.

Tex., Jasper—State Hy. Comn., Austin, granted $30,000 aid to Jasper Co. 6 mi. State Highway 45. C. P. Hunter, co. engr.

Tex., Sonora—Sutton Co. making plans grading 22.7 mi. 24 ft., and gravel surfacing 1.4 mi. 16 ft., State Highway 4. $145,-500. J. W. Alger, co. engr.

Okla., Muskogee—Having plans prepared 12,000 yd. paving, various types. J. E. Marsh, Muskogee, engr.

Colorado — State Hy. Comn., Denver, made following appropriations for Federal aid projects: $678,900 gravel surfacing in Gunnison, Rio Blanco, Mesa, La Plata, Fremont, Bend, Prowers, Chaffee and Grand Counties; $1,329,000 concrete pavement Las Animas, Pueblo, Otero, Douglas, Jefferson, Boulder, Larimer, Logan, Morgan and Weld Counties; $113,000 crushed rock surfacing Eagle and Jefferson Counties; $50,000 sand clay surfacing Elbert Co. L. D. Blauvelt, Denver, ch. engr.

Colo., Denver — Making plans asphaltic paving 11 blocks Washington Park Impvt. Dist. 2, 30-56 ft., $62,056; North Denver Dist. 32, 107,000 sq.yd. surfacing, 11,000 lin.ft. curb, $146,084; asphalt paving 14 blocks North Denver Paving Dist. 3, 30-40 ft., $31,560. A. K. Vickery, City Hall, engr.

Wash., Wenatchee — Chelan and King Counties plan 30 mi. highway between Gold Bar and Merrit, crossing Cascade Mts.

Calif., Napa—Plans paving with 2 course asphalt macadam Bell, Evans and Willow Aves. To exceed $25,000. H. A. Harrold, city engr.

Calif., San Bernardino—Soon takes bids curbing, sidewalks and 4 in. concrete paving 13th St.; 4 in. concrete paving Wallace St.; guttering and 4 in. macadam paving Hanson St. To exceed $25,000.

Calif., San Diego—Had plans prepared paving Julian and Macy Sts., 23,908 sq.yd. asphaltic concrete, 2½ in. base, 1½ in. surface. F. A. Rhodes, city engr.

Calif., San Francisco — City and San Francisco Co. plan highway down Peninsula in San Mateo Co. $250,000. Will be financed through joint highway district. M. M. O'Shaughnessy, city engr.

Calif., Whittier — Had plans prepared curbing, guttering, sidewalks and paving with 6 in. concrete portions Havaland, Orange and Palm Aves. To exceed $25,000. P. E. Todd, city engr.

Ontario—Dept. Highways, Toronto, takes bids in spring, asphalt surfacing 10 mi. road and treating 24 mi. road. S. M. McClenaghan, Bank and Sparks Sts., Ottawa, pres.

Ontario—Dept. Pub. Highways, 110 University Ave., Toronto, plans 6 mi. highway between Elmira and Alma, probably concrete. $100,000-$200,000. G. Hogarth, ch. engr.

Ont., Toronto—Plans paving 2,500 ft. Cairns Ave. and Glebeholme Blvd., 20 to 24 ft., 6,000 sq.yd. asphalt, brick block gutters, 6 in. concrete base. $33,000. R. C. Harris, city engr.

BIDS DESIRED

Massachusetts—Apr. 17, by W. F. Williams, state highway comr., Boston, paving 19,219 ft. bituminous macadam road in Rutland, to exceed $60,000. 33,658 ft. in Wrentham, Norfolk and Walpole, to exceed $110,000.

Conn., South Manchester—Apr. 16, by Bd. Selectmen, Hall of Records, concrete walks also concrete and granite curbs on 2.5 mi. various streets. $30,000. J. H. Hyde, secy.

New York—Apr. 20, by F. S. Greene, comr. State Hy. Dept., Albany, improving highways in Columbia, Greene, Orleans, Schoharie and Suffolk Counties; reconstructing highways in Broome, Erie, Fulton, Greene, Herkimer, Oneida, Ontario, Onondaga, Rockland and Ulster Counties. W. A. Patton, Secy.; adv. this issue.

N. Y., Buffalo—Apr. 17, by Bd. Supervs. Erie Co. paving Sharp St., Webster Corners, Jones, Grover, Shadagee, 13th Twp. and Military Rds., concrete, waterbound macadam, etc. To exceed $50,000. G. C. Diehl, Ellicott Sq. Bldg., engr.

N. Y., Long Island City—Apr. 17, by M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., asphalt paving Alburtis Ave. and Woodbine St.; grading sidewalk space and laying sidewalks where necessary on southerly side of 109th Ave.

N. Y., Long Island City—Apr. 17, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in 147th, Darrow, Pulaski, Wayne, Steuben, Ankener, Pullis, Ford, Brush, Summit and 131st Sts., Metropolitan, Weisse, Cooper and Mt. Olivet Aves., Varian, Hanson, Agnes and Bertha Places; temporary drain in 190th St., Jamaica and Hollis Aves.; temporary con-

Streets and Roads (Continued)

nection to sewer in Cooper and Myrtle Aves. together with an automatic electric pumping station at Weisse Ave. and Varian Pl., etc.

N. Y., Warwick—Apr. 30, by President and Village Trustees, 22,000 sq.yd. pavement. H. Eltinge Breed. 507 5th Ave., New York City, engr.; adv. this issue.

N. J., Deal (Deal Beach P. O.)—Apr. 26, by Boro Comrs., 8 in. rein.-con. pavement. J. Strello, Brent Good Bldg., Long Branch, boro engr.; adv. this issue.

N. J., Plainfield—Apr. 26, by Common Council, sheet asphalt and granite block paving. J. J. Carroll, city clk.; adv. this issue.

N. J., Trenton—Apr. 24, by Mercer Co., furnishing and applying asphaltic oil and tar. H. F. Harris, co. engr.; adv. this issue.

N. J., Trenton—May 1, by Freeholders Mercer Co. paving 1 mi. East State St., granite block on concrete. $36,000. H. F. Harris, Court House, engr.

Pennsylvania — May 1, by State Hy. Dept., Harrisburg, reconstructing 47 mi. highways. P. D. Wright, state comr.; adv. this issue.

Pa., Reynoldsville — Apr. 19, by Boro. Council, grading, paving and curbing various streets. E. E. Deible, clk.; adv. this issue.

Pa., Wilkes Barre—Apr. 17, by F. H. Gates, city clk., repaving South Main St., sheet asphalt on 9 in. concrete, to exceed $30,000. M. Murray, supt. Dept. Streets.

Maryland—Apr. 17, by State Rds. Comn., Baltimore, paving 2.92 mi. highway, Contr. BC-44. J. N. Mackall, chn.; adv. this issue.

Va., Richmond—Apr. 20, at office of Dept. Pub. Wks., paving various streets, $400,000. A. J. Saville, dir. Pub. Wks.; adv. this issue.

West Virginia — May 1, by State Rd. Comn., Charleston, grading, paving, surfacing and bridges in various counties. F. B. Carskadon, secy.; adv. this issue.

Fla., Miami—May 1, by City Comn., bituminous macadam and sheet asphalt paving. F. H. Wharton, city mgr.; adv. this issue.

Fla., Titusville — Apr. 18, by N. T. Froscher, clk. Brevard Co., surfacing 12 mi. road, 8 in. rock base, Project 534. $26,000.

Ala., Mobile—May 3, by City Comrs., one course concrete, asphaltic concrete and sheet asphalt paving, also storm sewers. W. Smith, city engr.; adv. this issue.

Louisiana—See "Bridges."

La., Cedar Grove — Apr. 23, by E. T. Archer & Co., engrs., 609 New England Bank Bldg., Kansas City, Mo., 50,000 sq.yd. pavement, various types, for city. $197,000.

Kentucky—Apr. 25, by State Hy. Comn., Frankfort, surfacing with waterbound macadam on prepared sub-grade 15 mi. Western Dixie Highway, Hardin Co., 28,224 tons crushed stone, 9,407 tons screenings; shaping and grading 34.951 mi. roads in Webster, Harlan, Muhlenberg and Morgan Counties, 286,911 cu.yd. earth, 48,498 cu. yd. solid rock and 36,187 cu.yd. borrow excav.; shaping and surfacing to width 16 ft. with rein.-con. or rock asphalt on concrete or bituminous concrete on concrete 10.282 mi. Covington-Falmouth Rd., Kenton Co.; shaping and surfacing to width 9 ft. with creek gravel or waterbound macadam or waterbound macadam surface treated 4.282 mi. Albany-Monticello Rd., Clinton Co.; shaping and surfacing to width of 14 ft. with waterbound macadam and waterbound macadam surface treated 3.917 mi. New Castle Shelbyville Rd., Henry Co. J. S. Boggs, state highway engr.

Ky., Irvine—Apr. 25, by S. S. Noble, mayor, constructing Bway., Main, Short and Upper Sts. $25,000. M. L. McKinney, city clk.

O., Akron—Apr. 16, by S. Porter, clk. Summit Co., grading and paving 1.31 mi. Granger-Ghent Rd., Sect. A-2, 16 ft., bituminous macadam $39,690, rein.-con. $50,675, bituminous concrete $50,975. Former bids rejected. J. Weaver, Court House, engr. Noted Apr. 5.

O., Bexley (Columbus P. O.)—Apr. 23, by S. W. Roderick, village clk., grading, curbing and asphalt paving 3,900 ft. Roche Ave. and Remington Rd. $73,000. Jennings-Lawrence Co., Hartman Bldg., Columbus, engrs.

O., Cincinnati—Apr. 16, by C. F. Hornberger, dir. Pub. Serv., City Hall, repaving 6,500 sq.yd. Gilbert Ave. viaduct, granite block. $59,285. F. Krug, City Hall, engr. Noted Mar. 29.

O., Columbus—Apr. 24, by W. H. Duffy, dir. Pub. Serv., grading, laying necessary water services and sewer connections and paving 1,300 ft. Moberly St., alley north of Bryden St., alley north of Broad St. and alley west of Winner Ave., brick, concrete or asphalt.

O., Marion—Apr. 17, by E. A. Schultz, dir. Pub. Serv., grading, curbing, guttering and paving 23,173 sq.yd. Fairground and Forest Sts., Uncapher, Merchant and Courtland Aves. T. S. Cathers, city engr.

Mich., Dearborn—Apr. 18, by H. B. Knauff, village clk., 19,015 sq.yd. 8 in. concrete, 8,012 cu.yd. excav., 11,408 lin.ft. concrete curb.

Mich., Ithaca—Apr. 17, by Gratiot Co. Rd. Comn., grading and gravel surfacing 11¼ mi. road.

Mich., Leland—Apr. 18, by Leelanau Co. Rd. Comn., grading and gravel surfacing 6 mi. road, 9 ft.

Ill., Chicago—Apr. 16, by Comrs. Cook Co., paving. $50,000.

Ill., Chicago — Apr. 20, by Bd. Local Impvts., 207 City Hall, paving various streets and alleys. Approximately $1,000,000. C. D. Hill, ch. engr.

Ill., Elmhurst—Apr. 16 for 35,000 sq.yd. macadam pavement. $135,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ill., Havana — Apr. 18, by Bd. Local Impvts., grading, curbing and paving various streets in Dist. E, 22,138 sq.yd. single course 6 in. concrete, etc.; Dist. F, 16,366 sq.yd. concrete, etc.; Dist. G, 16,940 sq.yd. concrete, etc. G. Coleman, chn.

Wisconsin—Apr. 19, by State Hy. Comn., at div. office 1, State Capitol Annex, Madison, grading and cement concrete surfacing, etc., 15,673 sq.yd. Watertown-Hubbleton Rd., Federal Aid Project 316, and 15,760 sq.yd. Watertown-Hubbleton Rd., Project 314, both in Dodge and Jefferson Counties. A. R. Hirst, state highway engr.

Wis., Milwaukee—Apr. 17, by Dept. Pub. Wks., concrete paving 34,186 sq.yd. various alleys. $90,000. G. Staal, city engr.

Ia., Bloomfield — Apr. 26, by Auditor Davis Co., grading 14.361 mi. road from here southeast, 163,346 cu. yd. excav., etc. Iowa Hy. Comn., Ames, engrs.

Ia., Nevada—Apr. 25 grading and paving East and West "L" Ave. to city limits, 9,086 sq.yd. concrete, etc. J. G. Dean, city engr.

Minn., Duluth—Apr. 25, by W. H. Fischer, city comr., concrete paving 18,100 sq.yd. 24th Ave. W. $64,079. E. K. Coe, city engr.

Minn., St. James—Apr. 17, by A. G. Countryman, aud. Watowan Co., gravel surfacing 10 mi. Road 5, 16,000 cu.yd. screening, 16,000 cu.yd. load and haul to mile point, 44,000 cu.yd. beyond mile point. T. J. Buhl, St. James, engr.

Minn., St. Paul—Apr. 16, by H. W. Austin, city purch. agt., cement sidewalks required by city during 1923. G. M. Shepard, city engr.

Minn., Warren—Apr. 25, by A. G. Lundgren, aud. Marshall Co., grading 6½ mi. Div. 1, and 7 mi. Div. 2, Job 2302, State Aid Rd. A; 13 mi. Job 2304, State Aid Rd. J. $45,000. J. E. Dishington, Warren, engr.

Kan., Ft. Scott—Apr. 20, by B. Boyle, co. engr., tar surfacing 16 mi. Federal Aid Project 34 Sect. A, Project 33 Sect. A, Hornaday, Coleman and High Dive Rds. Noted Mar. 1.

Kan., Hiawatha—May 4, by Brown Co., grading and culverts on 9.784 mi. Federal Aid Project 151, 26 ft. $75,000. E. C. L. Wagner, Kemper Bldg., Kansas City, Mo., engrs.

Kan., Topeka—Apr. 16, at office of E. M. Covell, city clk., concrete paving 24,173 sq.yd. various streets. W. E. Baldry, city engr.

Kan., Topeka—Apr. 16, by City Comrs. and Comrs. Shawnee Co., concrete paving 8,067 sq.yd. various roads. E. M. Covell, city clk.

Neb., Schuyler—Apr. 15, by Prince-Nixon Eng. Co., 501 Peters Bldg., Omaha, 20,000 ft. curb and gutter, 55,000 yd. paving, different types. Noted Apr. 5.

S. D., Deadwood—Apr. 17, by State Hy. Comn. at office Auditor Mead and Lawrence Counties, grading and surfacing 16.068 mi. road in Mead and Lawrence Counties, 79,844 cu.d. excav., 78,007 lb. reinforcing, 795.86 cu.yd. concrete, 13,950 cu.yd. stone to be quarried and crushed, 13,287 cu.yd. broken stone surface, 1,106 cu.yd. clay, also 34 ft. span concrete viaduct.

S. D., Yankton—Apr. 23, paving Locust St., concrete or vibrolithic concrete. $26,000. C. H. Conrick, city engr.

N. D., Fargo—Apr. 18, paving 34 blocks, asphaltic concrete, vitr. brick or vibrolithic. $160,000. R. T. Jacobson, city engr.

Tex., Breckenridge—Stephens Co. taking bids gravel surfacing, grading, etc., 11 mi. Breckenridge-Crystal Falls Rd., 18 ft. $60,000. Nagle Witt & Rollins, Breckenridge, engrs.

Tex., Cleburne—Apr. 18, by O. R. McPherson, judge Johnson Co., grading and gravel surfacing 14.98 mi. State Highway 2, Federal Aid Project 20 B, 18 ft., $202,365; 10.86 mi. State Highway 2-B, Federal Aid Project 330, 18 ft., $117,250. R. E. Keller, co. engr.

Tex., Columbus—Apr. 20, by E. B. Mayes, judge Colorado Co. gravel surfacing 8.82 cu.yd. State Highway 3. $26,000. B. H. Faber, co. engr.

Tex., Dallas—Apr. 23, by A. C. Allen, judge Dallas Co. grading and macadam surfacing 8.8 mi. Belt Line Rd. 1. 18 ft. Nagle Witt Rollins Eng. Co., Court House, co. engrs.

Tex., Ft. Worth—Tarrant Co. taking bids grading, gravel surfacing, etc., 3.93 mi. Ft. Worth Haslet Rd., 14 ft. $65,000. R. V. Glenn, Court House, engr.

Tex., Hondo—Apr. 23, by R. J. Noonan, judge, Medina Co., grading, gravel surfacing and bridging 7.58 mi. State Highway 3, 18 ft. $71,400. Walton & Arneson, Gunter Bldg., San Antonio, engrs.

Tex., Uvalde—Apr. 20, by H. C. King, judge Uvalde Co., grading and gravel surfacing 14.11 mi. San Antonio-Del Rio Highway, Federal Aid Project 289, 18 ft. $137,330. M. B. Hodges, co. engr.

Okla., Sayre—Apr. 16, by W. F. Sides, city clk., grading and paving Bway. Ave., 14,700 sq.yd. 6 in. concrete. $64,500. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Wash., Tacoma—Apr. 25, by Comrs. Pierce Co., paving 2.8 mi. Pioneer Way, 6½ in. concrete. C. H. Votaw, Tacoma, engr.

Calif., Oakland — City Council receiving bids grading, curbing, guttering and paving 96th Ave., 227,350 sq.ft. grading, 116,950 sq.ft. oil macadam paving, etc. W. W. Harmon, city engr. Noted Apr. 5.

Calif., Redwood City—Apr. 23, by W. A. Price, city clk., grading and paving streets in Oak Knoll Manor, 17,500 cu.yd. grading, 24,575 lin.ft. concrete curb and gutter, 413,747 sq.ft. oil macadam, etc., $95,000; streets in Redwood Highlands, 5,055 cu.yd. grading, 11,513 lin.ft. concrete curb and gutter, 154,445 sq.ft. oil macadam, to exceed $30,000. C. L. Dimmitt, city engr.

Calif., San Anselmo—Apr. 30, by A. W. Studley, town clk., grading and paving Sequoia Dr., 44,060 sq.ft. grading surface and asphaltic macadam, 3,050 lin.ft. concrete curb, 7,080 sq.ft. concrete gutter and valley, etc.

Calif., San Francisco—Apr. 18, by Bd. Pub. Wks., grading, retaining wall, etc on Telegraph Hill Blvd., for City and San Francisco Co. $30,000. M. M. O'Shaughnessy, city engr. Noted Oct. 19.

Quebec — Minister Dept. Colonization Mines and Forests, Quebec, taking bids constructing and gravelling 112 mi. roads, 18 ft. M. Nectkar, ch. engr.

BIDS RECEIVED

Mass., Newton (Boston P. O.)—Street Comn., Apr. 2, 1,500 ft. curbing, 75,000 sq.ft. concrete sidewalks, 25,000 sq.ft. concrete driveways, 50,000 cu.yd. excav., from Mosaic Constr. Co., Central Sq., East Boston (Boston P. O.), $37,071; Simpson Bros. Corp., 77 Summer St., Boston, $38,328; O. A. Thurston, Watertown, $38,333. Noted Mar. 22.

Connecticut—State Hy. Dept., Hartford, Apr. 3, paving highway in Stafford, 8,500 sq.yd. 7 in. native stone macadam, from L. J. Wilcox, Norwich (street address not available) $13,901, J. Arborio, 82 Church St., New Haven $14,686, D. P. and H. Ahern, Willimantic (street address not available) $16,209, engrs. est. $14,400; 1,550 cu.yd. plain concrete, in Bristol, from A. DeMarko, Bristol (street address not available) $14,825, Waterbury Constr. Co. 65 Jefferson St., Waterbury $18,908, Osborne & Barnes, 20 West St., Danbury, $19,500, engrs. est. $17,988; 6,900 cu.yd. concrete paving in Plainville and New Britain, from Osborne & Barnes, 20 West St., Danbury, $71,700, C. W. Blakeslee & Sons, 58 Waverly St., New Haven, $74,021 for concrete and $114,485 for asphalt, A. DeMarko, Bristol (street address not available) $79,857 for concrete and $121,285 for asphalt, engrs. est. $115,000 and $154,000; 4 670 cu.yd. concrete, in West Haven, from W. D. Blakeslee, 58 Waverly St., New Haven, $37,685, Connecticut Hassan Paving Co., 340 North Quinnpiac Ave., New Haven $42,767, Bridgeport Constr. Co., 983 Broad St., Bridgeport, $45,760, engrs. est. $63,240; 29,306 sq.yd. 6 in. sheet asphalt in town of Stratford, from Warren Bros., 142 Beckley St., Boston, Mass., $89,969, Hudson Paving Co., $92,021, S. Godfrey, Stafford (street address not available), $94,365, engrs. est. $102,814; 28,300 sq.yd. bituminous macadam, in East Hartford and Manchester,

Streets and Roads (Continued)

from Miller Bros. Co., Bloomfield, $56,117. L. J. Wilcox, Middletown, $58,100, Immick Co., State St., Meridan, $63,988, engrs. est. $61,000. Noted Mar. 29.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, Apr. 4, curbing and asphalt paving (1) East 7th St. (2) East 19th St. (3) East 22nd St. (4) Louisiana Ave. (5) 8th Ave., grading and flagging (6) 13th Ave. (7) 40th St., asphalt paving (8) 56th St. (9) 58th St. (10) 82nd St. (11) 85th St. (12) Bedford Ave., grading, curbing and flagging (13) East 15th St. (14) Utica Ave. (15) West 12th St., from Borough Asphalt Co., 1301 Metropolitan Ave., (1) $6,409 (2) $14,066 (3) $10,622 (4) $5,954 (5) $23,180 (6) $8,864 (9) $17,356 (10) $8,959 (11) $8,196 (12) $4,951; Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., (1) $6,688 (2) $14,566 (3) $11,021 (4) $6,211 (5) $22,703 (8) $9,053 (9) $17,110 (10) $8,777 (11) $8,441 (12) $5,115; Cranford Co., 52 9th St., (1) $6,732 (2) $14,508 (3) $10,954 (5) $24,253 (8) $8,763 (9) $17,475 (10) $8,677 (11) $8,174 (12) $5,297; Cleveland Trinidad Paving Co., Flushing, (4) $6,237 (12) $5,272; F. Persicano, 350 Fulton St., (6) $12,938 (7) $4,011 (14) $2,778 (15) $4,709; T. B. Scott, 671 Halsey St., (7) $2,699 (13) $19,942 (14) $2,183 (15) $3,856; B. M. Mandatto, 139 29th St., (13) $16,747; Roslyn Constr. Co., (13) $18,011. Noted Mar. 29.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Apr. 2, grading, curbing and laying sidewalks on (1) Alburtis Ave. (2) Lent Ave. (3) Trimble Ave. (4) 41st St. (5) 88th St. (6) 108th St., asphalt paving (7) Alburtis Ave. (8) Crescent St. (9) 41st St. (10) 88th St., grading portion of (11) Beach Channel Dr., etc., recurbing and sheet asphalt paving (12) Centre St., curbing, laying sidewalks and asphalt paving (13) Hull Ave., grading and bituminous macadam paving (14) 100th St., repaving (15) within railroad area in State St., from Peace Bros., Inc., 15 Lawrence St., Flushing, (1) $31,503 (2) $14,228 (3) $10,335 (4) $7,815 (14) $14,229 (15) $6,005; Welsh Bros. Contg. Co., 32 Queens St., (2) $14,578 (3) $8,330 (4) $7,952; J. J. O'Brien, Jr., William St., Jamaica, (5) $9,530; W. J. Fitzgerald, 547 West 45th St., New York, (6) $14,698 (7) $45,135 (8) $13,975 (9) $13,861 (10) $26,468 (12) $11,080; Cranford Co., 52 9th St., Brooklyn, (6) $16,133 (12) $11,693 (13) $8,208; W. P. McDonald Constr. Co., 17 West 42nd St., New York, (6) $16,190 (7) $47,250 (8) $14,442 (9) $14,140; Cleveland Trinidad Paving Co., Flushing, (7) $46,418 (13) $8,376; Sicilian Asphalt Paving Co., 41 Park Row, New York, (8) $14,448 (10) $27,365; Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, (9) $14,520 (10) $26,195 (12) $11,050 (13) $7,490; W. H. Geoghegan Realty Co., Inc., (11) $21,282; Frederick W. Cranford, Inc., (11) $23,816; H. J. Mullin Contg. Co., Inc., Jamaica Ave. and 144th St., Jamaica, (14) $14,589 (15) $4,753; Tuohy & Upton, Inc., 129 Bway., Flushing, (14) $16,029 (15) $5,436. Noted Mar. 29.

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., Apr. 3, paving (1) White Plains Rd. (2) Fulton Ave., both granite blocks (3) Rae St., sheet asphalt (4) Ryer Ave., asphalt blocks (5) West 179th St. (6) West 170th St., both bituminous macadam, grading, building inlets, etc., on (7) Taylor Ave., grading, curbing and laying sidewalks, etc., on (8) Knox Pl. (9) Bryant Ave. (10) Liebig Ave., sewer in (11) Crosby Ave., from Casper Helbock Co., Harlem River and 150th St., (1) $259,883; J. Meehan & Sons, 74 Cortlandt St., (1) $259,928; Regan Towers Co., 124 West 121st St., (1) $275,447; C. D. Beckwith, Inc., 2875 Bway., (2) $41,634 (3) $6,683 (4) $60,786 (5) $18,017 (6) $21,942; Asphalt Constr. Co., 208 Bway., (2) $44,119 (3) $7,254 (4) $59,774 (5) $19,461 (6) $23,537; P. J. Kearns Contg. Co., 2306 Creston Ave., (2) $47,832 (4) $63,239; Brusstar Constr. Co., Harlem River and 150th St., (3) $8,195 (5) $21,080; Interboro Asphalt Co., 2306 Creston Ave., (6) $26,011; Spadero Contg. Co., 827 East 217th St., (7) $32,406 (8) $9,146 (9) $24,525 (10) $11,910; J. Paladino, (7) $34,192; Burnside Contg. Co., 270 Burnside Ave., (7) $36,933 (8) $8,917; C. De Blasio, (8) $8,095; F. Henretti, (9) $21,682; Gregorio & Gabriele, 1129 8th Ave., (9) $22,287. Noted Mar. 29.

N. J., Newark—Purchasing Agent Essex Co., Apr. 5, grading and paving Chancellor Ave., 900 lin.ft. bluestone and 100 lin.ft. granite curbing, 31,500 sq.yd. asphalt on concrete, from J. B. Gilligan-Casey Co., 919 Broad St., $100,945; Northern Constr. Co., 432 Amherst St., East Orange, $104,701; Standard Bitulithic Co., 50 Church St., New York City, $109,235. Engrs. est. $110,213. Noted Mar. 29.

Pennsylvania—State, Hy. Dept., Harrisburg, Apr. 3 (1) 7,979 ft. Route 204, Application 1942, Patterson and Chippewa Twps., Beaver Co. (2) 11,322 ft. Route 214, Application 1973, Fairview Twp., Butler Co. (3) 14,636 ft. Route 214, Application 2233, Clarion and Monroe Twps., Clarion Co. (4) 5,187 ft. Routes 214 and 311, Application 1940, Sligo Boro., Clarion Co. (5) 12,867 ft. Route 66, Applications 1939 and 2168, Clarion Tpw. and Boro., Clarion Co. (6) 12,698 ft. Route 91, Application 2217, Washington Twp., Clarion Co. (7) 34,462 ft. Route 200, Application 2124, Blooming Valley Boro. and Richmond Twp., Crawford Co. (8) 22,845 ft. Route 271, Applications 2182 and 2183, Oil Creek Twp. and Hydetown Boro., Crawford Co. (9) 33,552 ft. Route 85, Application 2245, Spring Twp. and Springboro Boro., Crawford Co. (10) 6,389 ft. Application 2246, Springboro Boro., Crawford Co. (11) 2,727 ft. Route 68, White Twp., Indiana Co. (12) 18189 ft. Route 233, Application 2271, Scott and Plain Grove Twps., Lawrence Co. (13) 3,275 ft., Application 1985, Stoneboro Boro., Mercer Co. (14) 28,563 ft. Applications 2106 and 2010, Perry Twp., Mercer Co. (15) 10,952 ft. Application 2141, Smithfield Twp., Monroe Co. (16) 7,051 ft. Application 1963, Pocono and Paradise Twps., Monroe Co. (17) 22,330 ft. Applications 2105 and 2167, Hellerton Boro. and Lower Saucon Twp., Northampton Co. (18) 3,844 ft. Application 2225, North Catasauqua Boro., Northampton Co. (19) 4,834 ft. Application 2252, Wilson Boro., Northampton Co. (20) 4,985 ft. Applications 2128 and 2166, Bethlehem Twp. and Freemansburg Boro., Northampton Co. (21) 7,930 ft. Application 2149, Stockerton Boro. and Palmer Twp., Northampton Co. (22) 7,522 ft. Application 2145, Tatamy Boro. and Palmer Twp., Northampton Co. (23) 26,252 ft. Route 216, Application 2175, Chanceford and Lower Chanceford Twps., York Co. (24) 25,208 ft. Route 332, Application 2179, East Prospect Boro. and Windsor and Lower Windsor Twps., York Co. (25) 14,787 ft. Route 333, Application 2180, Sect. 3, Hopewell Twp., York Co, (26) 25,234 ft. Route 333, Application 2180, Sect. 2, Winterstown Boro. and North Hopewell Twp., York Co., from T. J. Strickler, 508 Church St., Huntingdon, (1) $68,338; W. S. Morrison, New Brighton, (1) $78,323; H. V. Kirker Co., 3223 5th Ave., Beaver Falls, (1) $78,914; C. E. Walter, Butler, (2) $117,741; C. E. Walter, Clarion, (3) $178,793 (5) $132,575; Burns Bros., 343 East Washing St., New Castle, (2) $130,870; Jones Constr. Co., Salem, O., (3) $182,546 (12) $216,657 (14) $248,343; F. S. Wilson, Kittanning, (3) $162,067 (4) $57,780; R. V. Baldwin, 1361 4th Ave., Coraopolis, (4) $55,961; J. Weisner, St. Marys, (5) $127,455 (6) $127,342; L. H. Hileman Constr. Co., 217 1st National Bank Bldg., New Kensington, (5) $119,199; Ft. Pitt Constr. Co., 207-208 Martin Bldg., Pittsburgh, (7) $328,978; C. H. Fry Constr. Co., 609 West 19th St., Erie, (7) $329,999 (9) $253,027 (10) $47,639; W. C. Guncheon & Co., Smethport, (7) $349,102 (8) $186,966 (11) $35,859 (23) $233,065 (25) $114,355; Smethport Constr. Co., Carlton, (8) $170,402 (14) $238,286; H. W. Horst Co., Horst Bldg., Rock Island, Ill., (8) $188,165 (9) $242,154 (14) $236,016; R. D. Baker Co., 1454 Penobscot Bldg., Detroit, Mich., (10) $52,744; S. Gamble Co., Glass St., Carnegie, (9) $254,112 (10) $47,508; Torquato Bros. Co., 1317 Midway Ave., Windber (11) $36,160; M. Bennett & Sons, Indiana, (11) $34,448; Kavanagh Bros., 417 Terminal Bldg., Youngstown, O., (12) $218,723; Matthew Bros. Constr. Co., Inc., 28 Hastings St., Pittsburgh, (12) $215,380; McQuiston Paving & Constr. Co., Farrell (13) $51,978; Avery & Bailey, Philipsburg, (13) $52,132; Strange & Payne, Stoneboro, (13) $64,520; J. F. Gill Co., Inc., West Naples St., Wayland, N. Y., (15) $92,995 (16) $44,255; Freeland Constr. Co., Freeland, (15) $95,665 (16) $47,921 (17) $266,476 (21) $83,989; B. Foster Co., 20th and Venango Sts., Phila., (15) $115,810; E. P. Arbogast, Stroudsburg, (16) $47,050; Souder Constr. Co., 349 Woolworth Bldg., Lancaster, (17) $270,096 (24) $215,329; W. C. Evans, Ambler, (17) $253,614 (21) $75,296 (22) $61,758; J. M. Hutchinson, Altoona, (18) $28,631; M. Miller & Sons, 246 9th St., Northampton, (18) $26,614; General Paving Co., B. & B. Bldg., Allentown, (18) $31,388; J. E. and J. H. Miles, 325 Drake Bldg., Easton, (19) $38,656; Neumeyer Bros., 1416 East 4th St., Bethlehem, (19) $42,297 (20) $56,992; McInerney & McNeal, Inc., 702 Northampton National Bank Bldg., Easton, (19) $46,037; R. D. Richardson Constr. Co., 828 Connell Bldg., Scranton, (20) $49,291 (22) $68,369; Baton Constr. Co., 1713 Sansom St., Phila., (20) $53,815; Ambler-Davis Co., Harrison Bldg., Phila., (21) $75,409 (22) $63,191; Warren Bros. Co., 9 Cambridge St., Boston, (23) $215,146 (24) $224,200 (26) $194,400; Comerford Constr. Co., 125 South 5th St., Phila., (23) $214,897 (25) $116,948; W. G. Raub, Red Lion, (24) $214,972 (25) $109,690 (26) $183,951; W. E. Supples Co., Wayne, (26) $188,935. Noted Mar. 15.

Florida—State Hy. Dept., Tallahassee, constructing 8 in. rock base on (1) 5 mi. road between Sharps and Titusville, Project 546, Brevard Co. (2) 14.4 mi. Bunnell-Volusia Co. line Rd., Project 507, Flagler Co. (3) 5 mi. road between Bonaventure and Eau Gallie, Project 554, Brevard Co., from Barber-Fortin Co., Gainesville, (1) $89,326 (2) $186,900 (3) $87,930; Adams-Evans & Co., 410 Atlantic Natl. Bank Bldg., Jacksonville, (1) $96,546 (3) $93,526; J. F. Morgan Paving Co., Woodward Bldg., Birmingham, Ala., (1) $107,729 (3) $107,325; C. F. Lytle, Jacksonville (street address not available), (2) $198,597; Wills & Sons and McCarthy & Adams-Evans & Co., 410 Atlantic Natl. Bank Bldg., Jacksonville, (2) $206,626. Noted Mar. 22.

O., Akron—W. F. Peters, dir. Pub. Serv., Apr. 2, grading and paving (1) 4,000 ft. Bellows, Crozier and Washington Sts., 26 ft. (a) vitr. brick, engrs. est. $93,042 (b) asphalt, $91,967 (2) 2,200 ft. West North St., 30 ft., (a) vitr. brick, engrs. est. $50,801 (b) asphalt, $50,911, from V. Olson Constr. Co., 501 Herberich Bldg., (1a) $95,458 (2a) $54,144 (2b) $52,587; W. and P. T. McCourt, 365 South Main St., (1a) $96,146 (1b) $87,293; T. E. McShaffrey Constr. Co., 171 South Forge St., (1a) $100,370 (1b) $93,040 (2a) $55,483 (2b) $54,167; Hollinger & Davidson, 435 South Bway., (2a) $56,378. Noted Mar. 8.

O., Cleveland—Grading, curbing and paving (1) Glenside Rd. from East 138th to East 140th Sts. (2) Glenside Rd. from St. Clair Ave. to East 140th St. (3) West 34th St. (4) West 24th St. (5) East 119th St. (6) Damon Ave. (1-6 inclusive) involve 6,660 lin.ft. stone curb and 4 in. tile drain gutter, 4,290 cu.yd. earth excav., (a) 8,035 sq.yd. vitr. brick on concrete, (b) 7,725 sq.yd. asphalt, (7) Svec Ave. (8) Windsor Ave. (9) Public Sq. (7-9 inclusive) involve 3,310 lin.ft. stone curb and 4 in. tile drain gutter, 2,050 cu.yd. earth excav., (a) 5,130 sq.yd. vitr. brick (b) 14,750 sq.yd. asphalt on concrete, from Gould & Maybach, 823 East 150th St., (1a) $6,456 (1b) $5,431 (2a) $10,213 (2b) $8,658; River Constr. Co., 2402 Mapleside Rd., (1a) $6,651 (2a) $11,140 (6a) $16,910; Roehl Bros., West 25th St. and Clark Ave., (3a) $4,568 (4a) $1,069; Rieley Bros., The Arcade, (4a) $4,891 (7a) $31,625 (7b) $26,021 (8b) $22,041; Bentley Bros., Union Bldg., (5a) $9,305; A. M. Pejsa Paving Co., Euclid Heights Blvd., (5a) $9,320 (7a) $30,572 (7b) $25,562; H. G. Herring, Pavers Exch., Society for Savings Bldg., (6b) $14,140; Cleveland Trinidad Paving Co., The Arcade, (8b) $20,746 (9) $11,122.

Ind., Greensburg—Decatur Co., Apr. 4, paving 60,718 sq.yd. John McCoy Rd., concrete, from Freeland & Brown, Greensburg, 172,434; McCowan Constr. Co., Noblesville, $174,446; Timberlake Constr. Co., 236 Amer. Central Life Bldg., Indianapolis, $189,720. Engrs. est. $228,090.

Michigan — State Hy. Dept., Lansing, grading and surfacing 3.489 mi. road St. Clair Co., 11,542 cu.yd. excav., 40,988 sq. yd. concrete, from J. Porath, 35 McGraw Bldg., Detroit, $81,081. J. A. McKay & Sons, Detroit, (street address not available) $81,653. J. H. Baber & Sons, Port Huron, $85,673; 4.009 mi. road Muskegon Co., 8,298 cu.yd. excav., 42,444 sq.yd. concrete, from J. R. Edelman, Muskegon, $64,842. G. P. Schall, Muskegon, $69,415, New Era Road Bldg. Co., New Era, $71,092; 1.342 mi. road Oceana Co., 8,024 cu.yd. excav., 14,303 sq.yd. concrete, from New Era Road Bldg. Co., New Era, $28,513, O. M. Whitlaw, Grand Rapids, (street address not available) $34,264, C. Marsman, Grand Rapids, (street address not available) $32,369.

Wis., West Allis—Paving 48,381 sq.yd. various streets, from Schaefer-Thompson Constr. Co., Central Ave., Marshfield, reinf.-con., $2.47, vibrolithic concrete, $2.54; Western Impvt. Co., 840 9th St., Racine, sheet asphalt, $3.30. Noted Mar. 15.

Missouri—State Hy. Dept., Jefferson City, Mar. 27, (1) 1.155 mi. State Project Route 10, Sect. 36, Randolph Co. (2) 0.488 mi. State Project Route 3, Sect. 5, Mercer Co. (3) 2.727 mi. State Project Route 18, Sect. 6, Nodaway Co. (4) 4.115 mi. State Project Route 7, Sect. 6, Schuyler Co. (5) 3.83 mi. State Project Route 1, Sect. 20, Holt Co. (6) 2.26 mi. State Project Route 18, Sect. 11, Nodaway Co. (7) 4.996 mi. State Project Route 9, Sect. 97, Madison Co. (8) 2.476 mi. State Project Route 3, Sect. 1, Mercer Co. (9) 3.284 mi. State Project Route 14, Sect. 47, Phelps Co. (10) 4.973 mi. State Project Route 2, Sect. 18, Saline Co. (11) 1.526 mi. State Project Route 24, Sect. 13, St. Clair Co. (12) 4.561 mi. State Project Route 4,

Streets and Roads (Continued)

Sect. 35, Carroll Co. (13) 2.55 mi. State Project Route 1, Sect. 22, Andrew Co. (14) 0.848 mi. State Project Route 4, Sect. 18 A, Gentry Co. (15) 0.489 mi. State Project Route 4 A, Sect. 2, Gentry Co. (16) 4.761 mi. State Project Route 14, Sect. 37, Laclede Co. (17) 3.846 mi. State Project Route 21, Sect. 4, Washington Co. (18) 3.158 mi. State Project Route 1, Sect. 108, McDonald Co. (19) 3.1 mi. State Project Route 9, Sect. 73, Jefferson Co. (20) 4.559 mi. State Project Route 9, Sect. 101, Bollinger Co. (21) 5 mi. State Project Route 2, Sect. 20, Saline Co. (22) 4.997 mi. State Project Route 14, Sect. 49, Phelps Co. (23) 0.36 mi. State Project Route 36, Sect. 6, Barton Co. (24) 3.159 mi. State Project Route 10, Sect. 1, Clay Co. (25) 3.161 mi. State Project Route 14, Sect. 48, Phelps Co. (26) 3.551 mi. State Project Route 14, Sect. 11, Greene Co. (27) 4.955 mi. State Project Route 9, Sect. 102, Bollinger Co. (28) 4.89 mi. State Project Route 9, Sect. 100, Bollinger Co. (29) 4.6 mi. State Project Route 9, Sect. 71, Jefferson Co. (30) 4.7 mi. State Project Route 2, Sect. 22, Saline Co. (31) 4.8 mi. State Project Route 14, Sect. 9, Lawrence Co. (32) 5 mi. State Project Route 9, Sect. 112, Cape Girardeau Co. (33) 4.95 mi. State Project Route 9, Sect. 99, Madison Co. (34) 5 mi. State Project Route 9, Sect. 11, Cape Girardeau Co. (35) 4.037 mi. State Project Route 14, Sect. 12, Greene Co. (36) 2 032 mi. State Project Route 14, Sect. 44, Pulaski Co. (37) road west of Salem State Aid Project Route 32, Sect. 5, Dent Co. (38) 5 mi. State Project Route 7, Sect. 85, Texas Co. (39) 5 mi. State Project Route 15, Sect. 49, Callaway Co. (40) 2.4 mi. State Project Route 14, Sect. 10, Lawrence Co. (41) 5 mi. State Project Route 15, Sect. 48, Callaway Co. (42) 0.636 mi. State Project Route 3, Sect. 97, Greene Co. (43) 1.398 mi. State Project Route 3, Sect. 94, Greene Co. (44) 1.827 mi. State Project Route 7, Sect. 43, Callaway Co. (45) 2.338 mi. State Project Route 14, Sect. 38 A, Laclede Co. (46) 4.779 mi. State Project Route 2, Sect. 19, Saline Co. (47) 4.82 mi. State Project Route 12, Sect. 52, Franklin Co. (48) 4.856 mi. State Project Route 2, Sect. 6, Dent Co. (49) 4.033 mi. State Project Route 14, Sect. 46, Pulaski Co. (50) 4.7 mi. State Project Route 9, Sect. 72, Jefferson Co., from Lynch & McDonald Constr. Co., Moberly, (1) $4,512; Cook-O'Brien Constr. Co., 305 Ry. Exch. Bldg., Kansas City, (1) $4,517 (10) $37,712 (21) $83,334 (30) $19,017 (46) $29,630; M. Haase, Trenton, (2) $6,103 (8) $8,191 (14) $17,585 (15) $6,937; J. L. Simmons, La Plata, (2) $7,440 (4) $13,306; Cameron, Joyce & Co., Keokuk, Ia., (2) $7,784 (4) $12,874 (8) $9,036 (12) $38,174 (21) $100,202 (27) $29,630; A. L. Cook, Ottawa, Kan., (3) $17,616 (6) $11,834 (8) $9,027 (39) $13,761 (41) $23,077; Ziegler & Dalton, Junction City, (3) $19,756 (6) $13,077 (15) $6,446; L. W. Spangler, Edinburg, Ill., (4) $1,257; I. J. Morris, Savannah, (5) $34,670 (13) $22,667; Somers Hall Constr. Co., Newton Kan., (5) $34,870 (13) $23,437; Allison Dillingham Constr. Co., St. Joseph (street address not available) (5) $37,139; Hogan & Humphreys, Fredericktown, (7) $41,409 (20) $55,608 (27) $28,099 (28) $21,392 (33) $37,495; J. H. Hewitt, Little Rock, Ark. (street address not available) (7) $46,767 (33) $39,727; M. E. Gillioz, Monett, (7) $51,496 (9) $14,654 (16) $54,319 (18) $30,412 (19) $38,302 (20) $59,946 (22) $31,273 (26) $29,178 (28) $22,859 (31) $52,501 (33) $43,261 (35) $50,173 (36) $47,127 (40) $31,302 (45) $27,289 (46) $35,154 (49) $69,748; S. J. Groves & Sons, Globe Bldg., Minneapolis, Minn., (9) $14,703 (22) $33,074; Hughes-McCandliss Constr. Co., Topeka, Kan. (street address not available), (9) $15,033 (22) $32,442 (25) $92,985 (36) $49,118 (49) $66,799; A. A. Davis & Co., Oklahoma City, Okla. (street address not available) (10) 39,438; Haller & Davis, Boonville, (10) $40,171 (21) $86,758 (30) $20,074 (46) $31,452; V. E. Koch, Box 604, Joplin, (11) $8,483 (26) $29,018 (42) $10,754 (43) $4,334; E. G. Johnson, Carrollton, (11) $8,542 (24) $11,280; W. E. Hall, Clinton, (11) $8,797; Campbell Bros., 603 Kemper Bldg., Kansas City, (12) $33,587; Ruis & Olson, St. Joseph (street address not available) (12) $38,205 (13) $26,374 (14) $17,665; W. J. Welch, Genoa, Neb., (14) $15,940 (15) $6,094; Davis Constr. Co., Mamouth Spring, Ark., (16) $48,885; Pioneer Constr. Co., 101 New York Life Bldg., Kansas City, (16) $52,221 (44) $21,489 (45) $27,754; St. Louis Constr. Co., 743 Frisco Bldg., St. Louis, (17) $31,597; Muskogee Contg. Co., Tulsa, Okla. (street address not available) (17) $33,126 (32) $30,090 (34) $34,896; General Constr. Co., Syndicate Trust Bldg., St. Louis, (17) $34,356 (32) $39,025; J. M. Roach & Co., Anderson, (18) $28,113; C. J. Williams, Monett, (18) $29,142 (23) $9,427; Louis Rich Constr. Co., East St. Louis, Ill., (19) $36,916 (29) $46,556 (50) $54,268; Frazier Davis Constr. Co., Arcade Bldg., St. Louis, (19) $38,422 (50) $59,115; C. P. O'Reilley, Wainwright Bldg., St. Louis, (20) $66,236; J. W. Clack, Nevada, (23) $12,453; Highway Constr. Co., Webb City, (23) $13,676 (34) $8,876 (43) $43,718; Anderson & Menefee, Sedalia, (24) $8,516; J. B. Ramsey and E. L. Davis, Caruthersville, (25) $78,486; Dolman & Kanade, Topeka, Kan. (street address not available) (25) $94,129; Carterville Constr. Co., Carterville, (26) $30,136 (31) $36,248 (40) $31,201; W. A. Reynolds, Marble Hill, (27) $31,459; Maloney & Whalen, St. Louis (street address not available) (29) $50,116 (50) $55,300; Coopers Constr. Serv. Co., Federal Reserve Bank Bldg., St. Louis, (29) $52,784; Woodsmall & Woodsmall, Marshall, (30) $20,643; Baker & Coontz, Carthage, (31) $47,635 (40) $28,543; Tritt Bros., Belleville, Ill. (street address not available) (32) $37,023 (34) $43,921; Missouri Bridge & Iron Co., Fullerton Bldg., St. Louis, (34) $44,977; Republic Concrete Constr. Co., Republic, (35) $48,711; Short & Bramer, Monett, (35) $48,853; Miller Constr. Co., Springfield (street address not available) (36) $46,647 (42) $10,786 (45) $31,429 (49) $68,041; Allhands & Davis, 705-6 Frisco Bldg., Joplin, (37) $13,571 (47) 28,134; Clay-Gregory, Newport, Ark., (37) $15,233 (38) $17,066 (48) $24,989; A. C. Ellis, 2630 West Okmulgee St., Muskogee, Okla., (37) $16,030 (38) $18,263 (48) $27,268; Summerfield-Jones Co., Springfield (street address not available) (38) $14,541; T. Ryan & Sons, Missouri Valley, Ia., (39) $13,363 (41) $22,572; L. J. Keiser, Columbia City, Ind., (39) (39) $14,599 (41) $24,215; Kerr & Logan, Ozark, (42) $11,804; Springfield Constr. Co., Springfield (street address not available) (43) $40,025; Kansas City Bridge Co., 510 Orear-Leslie Bldg., Kansas City, (44) $20,538; Pittsburgh-Des Moines Steel Co., Tuttle and Southwest 10th St., Des Moines, Ia., (44) $21,573; Powell & Gaven Co., Collinsville, Ill., (47) $28,787; Vedder & Kasmann, Union, (47) $29,719. Noted Mar. 15.

Colorado—State Hy. Dept., Denver, gravel surfacing (1) 2.881 mi. Kremmling-Muddy Pass Rd., Federal Aid Project 223 A, Grand Co., (2) 1.853 mi. Meeker-Craig Rd., Federal Aid Project 211, Rio Blanco Co.; crushed rock surfacing (3) 3.505 mi. Denver-Idaho Springs Rd., Federal Aid Project 81 A, Jefferson Co.; grading (4) 2.776 mi. Norwood-Naturita Rd., State Project 705, Montrose Co.; (5) 950 ft. timber bridge and approaches over Cherry Creek near Melvin, Araphoe Co. Bond Project; (6) 0.775 mi. timber trestle bridge over Box Elder Creek, Adams Co., from H. Shore, Steamboat Springs, (1) $27,627; H. C. Lallier Constr. Co., Hudson, (1) $35,194 (2) $34,628 (3) $33,878; Hinman Bros., Kremmling, (1) $35,303 (2) $31,314; Northwestern Constr. Co., Craig, (2) $42,176; M. J. Kenney, 512 Mack Blk., Denver, (3) $35,731; J. V. Stryker, 3662 Blake St., Denver, (3) $32,216; G. F. Wear & Co., Delta, (4) $10,089; B. Walters, Redvale, (4) $10,379; Colorado Bridge & Constr. Co., Gas & Electric Bldg., Denver, (5) $12,088 (6) $16,191; A. R. Mackey, Sterling, (5) $12,730 (6) $14,782; J. A. Osuer, 1516 Blake St., Denver (5) $15,111; W. O. Morrison, 409 Cooper Bldg., Denver, (6) $17,533.

Colo., Pueblo — Concrete paving 47,400 sq.yds. Fountain Ave. Paving Dist., from J. F. Roberts Constr. Co., Tramway Bldg., Denver, $140,244; P. J. Driscoll, Pueblo, $144,326; L. F. Williams, Pueblo, $144,502. Engrs. est. $205,200.

Oregon—State Hy. Dept., Salem, 4.5 mi. resurfacing and 0.43 mi. paving, bituminous concrete, Pacific Highway, Eugene-Goshen, Lane Co., from Force & Currigan, 33rd and Halsey Sts., Portland, $100,610; G. F. Pyle, Eugene, $102,226, Warren Constr. Co., 289 East Salmon St., Portland, $113,580; clearing and grading 5.75 mi. Roosevelt Highway, Otter Rock, Lincoln Co., from Hetrick, Klein & Gardner, Portland (street address not available), $181,-081. A. D. Kern, Exch. Bldg., Portland $226,998. G. F. Atkinson, Chamber of Commerce Bldg., Portland, $228,563.

Calif., Los Angeles—Improving (1) Highland Ave. (2) 12th St. (3) Rowena St., etc., (a) 434,174 sq.ft. (b) 23,605 lin.ft. concrete curb (c) 1,152 sq.ft. concrete gutter (d) sanitary sewer, lump sum (e) 78,322 sq.ft. cement walks (f) grading, lump sum (g) 15,739 sq.ft. oiling (4) 1st St., etc., (h) grade, lump sum (i) 260,700 sq.ft. asphalt (j) 190,443 sq.ft. concrete, from Griffith Co., Los Angeles Ry. Bldg., (1) $77,552 (2) $43,027 (3a) $0.30 (3b) $0.70 (3c) $0.30 (3d) $50,000 (3e) $0.21 (3f) $50,000 (3g) $0.07 (4h) $120,000 (4i) $0.30 (4j) $0.30; G. H. Oswald, 366 East 58th St., (1) $83,-317 (2) $42,634 (4h) $110,000 (4i) $0.30 (4j) $0.29; G. R. Curtis, 2440 East 26th St., (1) $83,399 (2) $44,207 (3a) $0.25 (3b) $0.75 (3c) $0.25 (3d) $55,000 (3e) $0.27 (3f) $75,000 (3g) $0.08 (4h) $150,000 (4i) $0.32 (4j) $0.28; Jahn & Bressi, Ambassador Hotel, (3a) $0.245 (3b) $0.65 (3c) $0.30 (3d) $48,500 (3e) $0.20 (3f) $34,000 (3g) $0.07; Croatian-American Investment Co., 208 West 2nd St., (3a) $0.24 (3b) $0.75 (3c) $0.30 (3d) $55,000 (3e) $0.20 (3f) $45,000 (3g) $0.07; Hill Constr. Co., 1330 Shatto St., (3a) $0.27 (3b) $0.82 (3c) $0.25 (3d) $60,000 (3e) $0.23 (3f) $52,400 (3g) $0.09; W. D. McCray, Amer. Bank Bldg., (3a) $0.255 (3b) $0.70 (3c) $0.30 (3d) $57,000 (3e) $0.21 (3f) $46,000 (3g) $0.07; T. E. Shafer, 222 West 33rd St., (4h) $130,000 (4i) $0.28 (4j) $0.25.

Calif., Santa Ana—Orange Co., paving with 6 and 8 in. concrete portions Westminster Rd., from Wells & Bressler, California Bank Bldg., $51,940; H. H. Peterson, Loma Portal, $52,873; Independent Paving Co., 321 East 4th St., Long Beach, $56,161.

Calif., Santa Monica—Grading, sidewalks and paving Colorado Ave., 225,576 sq.ft. warrenite bitulithic on 3½ in. asphaltic concrete, from Kneen Paving Co., Dudley Blk., $65,778; Warren Constr. Co., 5444 Hollywood Blvd., Los Angeles, $73,631; G. R. Curtis, 2440 East 26th St., Los Angeles, $73,651.

CONTRACTS AWARDED

N. Y., Canandaigua—Ontario Co. will build gravel and bituminous macadam highways in towns of Bristol, Canadice, Canandaigua, Farmington, Geneva, Hopewell, Manchester, Naples, Phelps, Richmond, South Bristol, Seneca, East Bloomfield, Victor and West Bloomfield, by day labor, under supervision county superintendent. $97,000. Noted Apr. 5.

N. Y., Geneva—Bd. Pub. Wks., 21,000 sq.yd. sheet asphalt pavement, to J. H. Gallup, Union Bldg., Syracuse, $116,820. Noted Mar. 22.

N. Y., Lowville—Lewis Co. will construct 19.3 mi. highways in towns of Croghan, Denmark, Diana, Harrisburg, Highmarket, Lewis, Lowville, Lyonsdale, Martinsburg, New Bremen, Osceola, Pinckney, Turin, Watson, West Turin, and Greig, bituminous material, penetration method, by day labor, under supervision of L. P. M. Gaylord, co. supt. Cost to exceed $150,000.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, grading and bituminous concrete paving Saterlee Rd., to Cornelius Vanderbilt, 24 Elizabeth St., West New Brighton, $51,122; grading and bituminous macadam paving Livermore Ave., to J. Johnson Sons, 455 Bway., West New Brighton, $4,681. Noted Mar. 29.

Pa., Altoona — City Council paving 16 streets and avenues, 22,847.7 sq.yd. concrete, to L. A. Brua, Jr., 304 Penn St., Hollidaysburg, $2.70 and $2.75 per sq.yd., $0.85-$1 for curbing; total $54,000; 1,345.4 sy.yd. brick pavement on Pine Ave., to Vipond & Stapleton, Altoona, (street address not available) $4.20 per sq.pd.; 413 lin.ft. sewer in Beech Ave., to W. W. Saupp Co., 2102 West Chestnut Ave., $569. Noted Mar. 22.

W. Va., Clarksburg — Concrete curbing and paving 1,900 ft. West Main St., 30 ft., brick on 5 in. concrete, to W. F. Allen, Clarksburg, $56,334.

W. Va., Morgantown—Paving 14 streets, 24,000 yd. asphalt on 6 in. gravel, to Willite Road Constr. Co., Morgantown, $159,170. Noted Mar. 29.

S. C., Sumter—Sumter Co. paving with sheet asphalt 8.1 mi. Wedgfield Rd., to Slattery & Henry, Mills Bldg., Greenville, $230,-683; 7.8 mi. Oswego Rd., to Pritchard, Raines & Hazelhurst, Savings Bank & Trust Bldg., Savannah, Ga., $231,529; 4.1 mi. Paxville Rd., to Powell Paving & Contg. Co., Palmetto Bank Bldg., Columbus, $129,302.

Fla., Arcadia—De Soto Co. will pave with 6 in. rock, tarvia or asphalt surface treatment 18 mi. State Rd. 7; 20 mi. Hardee Co. line-Charlotte Co. line Rd.; 6 mi. road from Nocatee via Owen to Arcadia; 13 mi. road from Arcadia, Nocatee, Ft. Ogden to Charlotte Co. line; 26 mi. Manatee Co.-Highlands Co. line Rd., by day labor. Former bids rejected.

Alabama—State Hy. Dept., Montgomery, grading and gravel surfacing 23.649 mi. road from Tuscaloosa Co. line to Reform and Carrolton, Pickens Co., to W. M. Thompson & Co., Tuscaloosa, $313,992. Noted Mar. 29.

O., Akron—Summit Co. grading and paving 1.069 mi. South Main St. No. 50, Sect. C-1, 17 ft., bituminous concrete, to T. E. McShaffrey Constr. Co., 171 South Forge St., $38,748, engrs. est. $46,355; 2.64 mi. Vaughn-Twinsburg Rd., 17 ft., bituminous macadam, to Metropolitan Constr. Co., 228 Ohio Bldg., $81,948, engrs. est. $82,876. Noted Apr. 5.

Streets and Roads (Continued)

O., Cleveland—Cuyahoga Co. grading and paving Noble Rd., brick, to Gould & Maybach, 823 East 150th St., $305,117. Noted Apr. 5.

O., Columbus—W. H. Duffy, dir. Pub. Serv. grading and asphalt paving 1,096 ft. 5th Ave., 60 ft., to B. F. Patterson, 1214 Neil Ave., $113,461; 2,728 ft. Grubb St., 49½ ft., to Franklin Asphalt Paving Co., 269 South High St., $36,335. Noted Mar. 29.

O., Ironton — Paving 14 streets, 51,000 sq.yd. sheet asphalt on 6 in. concrete, to Federal Asphalt Paving Co., Hamilton, $166,728.

O., Martins Ferry—Dept. Pub. Serv., paving North 7th St. and alleys, vitr. brick, to Stringer & Springer, Martins Ferry, $45,000. Noted Mar. 29.

O., Rocky River—Paving Argyle Oval, Beach Cliff Blvd., Parkside and Frazier Drs., Oak, Colver, Arundel and Kensington Rds., vitr. brick on concrete, to Ohio Eng. Co., Lorain, $80,000. Noted June 15.

Ind., Brazil — Clay Co., paving 13,650 sq.yd. National Ave. Rd., vitr. brick on concrete, to Carpenter Constr. Co., Terre Haute (street address not available), $65,951. Engrs. est. $65,726. Noted Mar. 8.

Ind., Brookville — Franklin Co., grading and graveling 15,800 ft. Lew Davis Rd., 18 ft., to Gates, Arbuckle & Brown, Rays Crossing, $25,999. Engrs. est. $26,500.

Ind., Goshen—Elkhart Co., grading and graveling 18,040 ft. Rd. 8, 18 ft., to J. R. Stump, New Paris, $27,982, engrs. est. $29,120; paving 12,672 ft. A-1 Rd., 18 ft., vibrolithic on concrete, to Miller & Miller, Elkhart, $49,447, engrs. est. $53,760; 19,596 sq.yd. Gurner Rd., concrete, to McClintic, Colwell & Gordy, Syracuse, $74,367, engrs. est. $74,460.

Ind., Jasper—Dubois Co., paving 26,840 sq.yd. A. H. Manntel Rd., bituminous macadam on concrete, to Fritch Constr. Co., Jasper, $56,887. Engrs. est. $53,860. Noted Mar. 1.

Ind., Lagrange—For 10,664 sq.yd. concrete paving and 4 mi. concrete curbing, to C. D. Traxler, Kendallville, $29,955. Engrs. est. $33,001.

Ind., Indianapolis—Marion Co., paving 84,914 sq.yd. Crawfordsville Pike, concrete, to S. S. Palma, Lafayette (street address not available), $173,000. Engrs. est. $191,-659. Noted Feb. 15.

Ind., Lawrenceburg—Dearborn Co., concrete paving 17,235 sq.yd. Charles Haag Rd., to McIntyre, Hopping & Rininger, Cleves, $57,356, engrs. est. $62,278; grading and graveling 31,498 ft. Hoffmeier Rd., 16 ft., to Nolin & Woods, Harrison, O., $45,-500; engrs. est. $53,000.

Ind., Logansport—Cass Co., concrete paving 25,303 sq.yd. J. C. Tettig Rd., to Andrews Asphalt Co., Logansport, $80,313, engrs. est. $81,046.

Ind., Petersburg—Pike Co., grading and graveling 2 mi. County Rd. 6, Sect. 2, and 4 mi. County Rd. 6, Sect. 1, to English & Lemasters, Petersburg, $25,500 and $37,500 respectively, engrs. est. $27,431 and $42,300 respectively.

Ind., Portland — Concrete paving 9,352 sq.yd. East Walnut St., 6,983 lin.ft. concrete curbing, to Shivier & Davis, Portland, $25,-500. Engrs. est. $30,000.

Ind., Portland — Jay Co., grading and graveling 15,833 ft. Purley Snyder Rd., 18 ft., to A. Zehr, Berne, $26,475. Engrs. est. $29,200.

Ind., South Bend—St. Joseph Co., grading and graveling 18,200 ft. Bentler Rd., 16 ft., to McGreevy Bros. & Justice, Logansport, $25,765, engrs. est. $27,309; paving 52,076 sq.yd. Thornton Rd., concrete, to W. J. Nees & Co., 1152 East Walnut St., Frankfort, $135,400, engrs. est. $179,106. Noted Mar. 8.

Ind., Washington—Daviess Co., concrete paving 29,804 sq.yd. James A. Colbert Rd., to Musselman & Patterson, Washington, $59,950, engrs. est. $68,250; 27,600 sq.yd. Lawrence Lee Rd., to Singer, Campbell & Co., Sanborn, $50,480, engrs. est. $57,960. Noted Mar. 1.

Ill., Libertyville — Grading, paving and building sewers to J. Cape & Sons, 468 Water St., Racine, Wis., 5,217 cu.yd. excav. $0.80, 9,660 lin.ft. concrete curb and gutter $0.90, 11,092 sq.yd. concrete $2.90, 36 catch basins $80, etc., total $50,688. Noted Nov. 23.

Wisconsin — State Hy. Comn., Madison, surfacing Argyle-Darlington Rd., Lafayette Co., to J. Udelhofen, Potosi, 8,480 cu.yd. earth excav. $0.60, 2,546 cu.yd. loose rock $0.90, 2,319 cu.yd. solid rock $2, 2,085 cu.yd. broken stone surfacing $2.45, etc., total $27,216.

Wis., Ashland—Concrete paving 33,000 sq.yd. various streets, to Woodrick Constr. Co., 837 Metropolitan Life Bldg., Minneapolis, Minn., $70,479. Noted Mar. 22.

Wis., Juneau—For 18,230 sq.yd. concrete paving, to Cast Stone Constr. Co., 318½ South Barstow St., Eau Claire, $41,449. Noted Mar. 22.

Wis., Mayville — Paving, curbing and guttering Horicon St., 1 course concrete, to F. Doherty & Co., 4419 North Ave., Milwaukee, $43,314. Engrs. est. $43,000. Noted Mar. 29.

Wis., New Richmond—Paving, curbing and guttering 15,000 sq.d. various streets, 3 in. brick asphalt filler on macadam, to Roice Constr. Co., 251 Hennepin Ave., Minneapolis, Minn., $49,980. Noted Mar. 1.

Wis., Prairie du Chien—Paving North Main and South Church Sts., vibrolithic concrete, to Gund, Graham & Co., 304 Crum & Forster Bldg., Freeport, Ill., $53,834. Noted Mar. 15.

Ia., Belle Plaine—For 16,303 sq.yd. concrete paving, to Pickus Eng. and Constr. Co., 309 Massachusetts Bldg., Sioux City, $47,316.

Ia., Clarion—Paving 60 blocks, sheet asphalt on 5 in. concrete, to Western Asphalt Co., Sioux City, (street address not available) $2.35 per sq.yd., etc., total $176,000.

Ia., Clinton—Clinton Co., grading and concrete paving 1.606 mi. primary roads in De Witt, 11,556 cu.yd. excav., 16,967 sq.yd. concrete pavement, and 2.689 mi. road from Lyons west, 20,880 cu.yd. excav., 29,480 sq.yd. concrete, 9,010 ft. 6 in. and 3,150 ft. 10 in. tile, etc., to Layton Constr. Co., Muscatine, $50,433 and $93,359 respectively; 2.78 mi. primary road from De Witt south, 29,425 sq.yd. concrete, to Wright Constr. Co., 211 Flynn Blk., Des Moines, $80,674.

Ia., Tipton—Cedar Co., grading 18.814 mi. road south from Jones Co. line, to G. W. Condon, Brandeis Theater Bldg., Omaha, Neb., 299,638 cu.yd. excav. $0.234 per cu.yd.; L. M. Cisco, Mason City, 79,806 ft. 6 in tile $0.12, 1,200 ft. 8 in. $0.20 and 320 ft. 12 in. $0.26, etc.

Minn., Albert Lea—For 5.5 mi. Job 23-23, State Rd. 23, 3 mi. Job 23-07, State Rd. 7 and 1 mi. Job 22-07B, 91,725 cu.yd. excav., 1,881 lin.ft. portable culverts, 59,860 cu.yd. overhaul, to O'Malley & Trybom, Albert Lea, $30,046. Noted Mar. 15.

Minn., Duluth—Paving Gladstone St. from 40th Ave. E. to Superior St., 8,230 sq.yd. concrete, 6,420 lin.ft. 6 in. plain and 400 lin.ft. armoured concrete curbing, to Nelson & Hafner, 118 Parkland Ave., $43,-312. Noted Mar. 8.

Minn., Hutchinson—For 40,526 sq.yd. asphaltic concrete pavement, etc., to Schruth-Welsh Co., 704 1st National Soo Line Bldg., Minneapolis, $2.78, total $122,955; 7,801 lin.ft. 10-20 in. storm sewer, 4,215 lin.ft. storm water inlet pipe, to Hutchinson Constr. Co., Hutchinson, $16,021. Noted Mar. 22.

Kan., Independence — Montgomery Co. paving 5.4 mi. Federal Aid Project 121 Sect. B, 18 ft., to Cornelison & Kelley, 224 West Main St., earth and borrow $0.60, rock excav. $1.20, bituminous macadam $1.20, etc., total $119,232. Noted Mar. 8.

South Dakota—State Hy. Dept., Pierre, grading 15.14 mi. road in Hutchison Co. and graveling 7.83 mi. road in Moody Co., to W. R. Larson Constr. Co., 519 Secy. Natl. Bank Bldg., Sioux Falls, $66,413 and $13,495 respectively; grading 14.14 mi. road in Beadle Co. and 8.95 mi. road in Potter Co., to C. J. Wheelock, Pierre, (street address not available), $48,455 and $28,199 respectively; grading 7.86 mi. road Charles Mix Co., to Bradley Grading Co., Wagner, $28,511; grading 12.5 mi. road Bon Homme Co., to Tobin & Maloney, Madison, $48,845; grading 9.04 mi. Moody Co., to D. D. Bidwell, Egan, $37,681; grading 15.92 mi. Brookings Co., to Enke Constr. Co., Lake Benton, Minn., $54,343; grading 8.9 mi. Beadle Co., to Schaefer Constr. Co., Winfred, $44,433; grading 5.65 mi. Todd Co., to E. B. Davis, Kadoka, $54,-560; grading 6.85 mi. Haakon Co., to England & England, Murdo, $35,302. Noted Mar. 15.

S. D., Aberdeen—Paving 78 blocks, 109,-000 sq.yd. vibrolithic concrete, to V. W. O'Connor, Hamm Bldg., St. Paul, Minn., $299,672. Noted Mar. 15.

Mo., St. Louis—Bd. Pub. Serv., City Hall, to I. S. Brighton, 4115 McRee Ave., improving 7,975 sq.yd. Leonard Ave., asphalt over brick $17,649; to Granite Bituminous Paving Co., Ry. Exch. Bldg., 945 sq.yd. Brannon Ave. $4,385, 1,820 sq.yd. Neosho St. $7,949, 2,640 sq.yd. Kingsbury Pl. $7,397, 13,585 sq.yd Page Ave. $35,601, all warrenite bitulithic; to Alzina Constr. Co., Arcade Bldg., 3,860 sq.yd. Wilmington Rd., brick on 6 in. concrete, $23,355; to J. E. Perkinson, 3237 Carter Ave., 1,275 sq.yd. Glasgow Ave., brick on 5 in. concrete, $8,727, 1,585 sq.yd. Blase Ave, concrete, $8,395. Noted Apr. 5.

Tex., Bryan—Resurfacing 25,000 sq.yd. various streets, 2 in. bituminous topping, to Smith Bros. Constr. Co., 311 Central State Bank, Dallas, $40,000. Noted Apr. 5.

Tex., Clarksville—Red River Co., grading and gravel surfacing 7.59 mi. Highway 5, Detroit Rd. Dist., 12 ft., to McGuire & Cavender, Clarksville, $53,411; 11,579 cu.yd. shipped gravel to be furnished by county $28,997. Noted Mar. 8.

Tex., Greenville—For 118,738 sq.yd. bituminous paving, 194,196 lin.ft. curb and gutter, etc., to Janes Contg. Co., Southwestern Life Bldg., Dallas, $481,309. Engrs. est. $400,000.

Tex., Rockwall—Rockwall Co., surfacing 57,000 sq.yd. Rockwall Chisholm Rd., concrete, to McCollum Constr. Co., 1507 F. & M. Bank Bldg., Ft. Worth, $2.36 per sq.yd., total $143,772. Noted Mar. 22.

Okla., Pawhuska — Grading and paving various streets in Grandview Addition, 6,800 lin.ft. concrete curbing, 5,000 cu.yd. earth excav., 17,100 sq.yd. asphalt and 2,900 cu.yd. concrete, to Hamilton Constr. Co., Bartlesville, asphalt $3.42 per sq.yd., concrete $2.90, total $83,360.

Wash., Seattle—Grading and paving 9th Ave. S., et al. (Beacon Hill Project), 23,050 sq.yd. 8 in. concrete, 750,000 sq.yd. excav., etc., also grading Golf Heights, 646,000 cu.yd. earth excav., to Puget Sound Bridge & Dredging Co., Central Bldg., $496,623 and $74,464 respectively; engrs. est. $500,-000 and $75,000. Noted Apr. 4.

Wash., Spokane — Spokane Co. grading and paving 9,300 cu.yd. Valley Chapel-Mt. Hope Rd., waterbound macadam, to Mohr Constr. Co., Waterville, $62,548; 24,000 cu. yd. Elk Rd. from Pend Oreille Highway to Elk, to J. E. Edwards, Realty Bldg., $98,-769. Noted Mar. 8.

Oregon—State Hy. Dept., Salem, grading, building bridges and concrete culverts on 7.75 mi. Roosevelt Highway, Fat Elk Creek, Coos Co., to J. Hampshire, Grants Pass, $220,250; 4.78 mi. McKinzie Highway, Redmond Cline Falls, Deschutes Co., to G. K. March, 1126 2nd St., Spokane, Wash., $36,830, (concrete pipe).

Calif., Fresno—Grading, concrete curbing, guttering, sidewalks and asphalt paving Home and Woodward Aves., to Thompson Bros., G and Divisadero Sts., $21,105 and $5,620 respectively. Noted Mar. 29.

Calif., Glendale—Paving Doran and Pacific Aves., 140,000 sq.ft. macadam, etc., to Ducey & Breitenstein, 151 South Hill Ave., Pasadena, $27,710. Noted Mar. 22.

Calif., Hanford—Grading, curbing, guttering and paving West 6th and Phillips Sts., etc., to California Constr. Co., 58 2nd St., San Francisco, $51,553. Noted Apr. 5.

Calif., Los Angeles — Grading, curbing and paving Alexandria Ave., to G. H. Oswald, 366 East 58th St., $38,997; Wilcox St., to W. Liddington, 420 East 60th St., $14,950. Noted Mar. 22.

Calif., Santa Rosa — Grading, reshaping, curbing, guttering and paving with 1½ in. warrenite bitulithic on 2½ in. bituminous concrete, 5th, North and Benton Sts., etc., to Warren Constr. Co., Bacon Bldg., Oakland, $54,665. Noted Apr. 5.

Calif., Sanger—To California Constr. Co., Mattei Bldg., Fresno, grading, curbing, guttering and paving 5th, 8th and O Sts., $70,433, L St. $7,129. Noted Mar. 8.

Ont., Kitchener—Paving 1 mi. Petersburg Rd., concrete, to C. Damman, 21 Albert St. S., Kitchener. Engrs. est. $60,000.

British Columbia — Minister Dept. Pub. Wks., Victoria, paving 8.46 mi. Pacific Highway from Cloverdale to Blaine, Wash., 7¾ in. concrete, to A. B. Palmer Co., Ltd., 736 Granville St., Vancouver, $248,000. Noted Mar. 1

Industrial Works

PROPOSED WORK

Mass., Springfield—Metallic Drawing Roll Co. plans 1 story, factory, brick and steel, plain foundation, in East Springfield Dist. $50,000. H. C. Spence, 111 Myrtle St., Indian Orchard, pres.

Conn., East Hartford (Hartford P. O.)—Economy Grocery Co., 5 Watertown Ave., Waterbury, plans 6 story, 60 x 110 ft., brick and steel warehouse, plain foundation, Park Ave., here. $200,000. Engineer and architect not selected.

Conn., Georgetown—Greenwood & Noerr, archts. and engrs., 847 Main St., Hartford, rejected bids 3 story, 50 x 135 ft. mill,

Industrial Works (Continued)

rein.-con. and brick, for Gilbert & Bennett Mfg. Co. Noted Mar. 15.

Conn., Hartford—A. H. Carpenter, Bloomfield, having revised plans prepared by L. A. Allen, 100 Farmington Ave., 7 story, 50 x 112 ft. industrial building, steel frame, plain foundation, Asylum St. $200,000.

N. Y., Elmira Heights—Amer. Bridge Co., Frick Bldg., Pittsburgh, Pa., having revised plans prepared 1 story and basement, 50 x 210 ft., templet shop. Private plans.

N. Y., Jamestown—W. H. Edson, Falconer, interested in company now being formed, which plans to take over present lines, plants and system of Pennsylvania Gas Co., 312 Cherry St., here, and build and operate complete artificial gas plant. To exceed $300,000.

N. Y., Malone—H. S. Day, East Main St., plans 1 story, 40 x 80 ft., concrete service station. $100,000.

N. Y., Newark—Newark Cold Storage Co. plans rein.-con. cold storage warehouse, 65,000 bbl. capacity. $250,000. E. V. Pierson, c/o 1st National Bank, secy.

N. Y., Rochester—Rochester Realty Corp. plans 2 story, 135 x 445 ft., brick garage, storage and office building, 433 St. Paul St. $150,000.

N. Y., Utica—Schiller Electric Co., 1402 Francis St., plans brick and concrete repair and machine shop, and office building, Genesee and Warren Sts. $65,000.

N. Y., Watertown—Northern New York Utilities, Inc., 58 Public Sq., plans 2 story, rein.-con. garage and machine shop, Front St. $40,000. S. D. Gilbert, Light & Power Bldg., mgr.

Pa., Jeannette—Pittsburgh Eng. Co. plans 3 additions to plant. $200,000. Engineer and architect not announced.

Pa., Jersey Shore—Amer. Air Stand Mfg. Co. plans 2 story and part basement, 50 x 150 ft. concrete, steel and tile factory, Main St. $50,000.

Pa., Lewistown—Penna. Wire Glass Co., Dunbar, plans 3 story, 100 x 500 ft. plant, here. F. A. Hayes, Dunbar, engr. and archt.

Pa., Phila.—Viscose Co., Marcus Hook, plans factory buildings at Holmesburg Junction and Delaware River. $4,000,000. Private plans.

Pa., Phila.—Brandle & Smith Co., 8th and Dauphin Sts., soon takes bids 4 story, rein.-con. and brick plant, plain foundation, 5th and Bristol Sts. $1,000,000. Private plans.

D. C., Wash.—See "Buildings."

N. C., Greenville—Pitt Lumber Co., plans to rebuild lumber mill, destroyed by fire. $50,000. Engineer and architect not announced.

N. C., Oakboro — Oakboro Cotton Mill plans 6,000 spindle cotton mill. $250,000. J. A. Groves, Albemarle, pres.

N. C., Waco—Rhodes Cotton Mills plan mill, probably 4 story. $200,000. Engineer and architect not selected.

Tenn., Chattanooga—Burdett Oxygen Co., Alton Park, plans mill. $50,000. W. K. Hendricks, mgr.

Tenn., Chattanooga — Dixie Spinning Mills plan 2nd unit of mill, Hixon Pike. $1,000,000. Ultimate cost $9,000,000. J. T. Lupton, Volunteer State Life Bldg., pres.

Tenn., Chattanooga — Dixie Mercerizing Co., 813 Watkins St., plans mill, Rossville St. $500,000. T. H. McKinney, genl. mgr.

Ky., Ashland—Kentucky Clay Products Co. plans brick and tile manufacturing plant. $150,000. W. B. Elswick, pres.

Ky., Louisville—Louisville Gas & Electric Co., 311 West Chestnut St., plans 66 x 200 ft. power substation, brick, 13th and Magazine Sts. $150,000. L. F. Strang, c/o owner, engr.

Ky., Louisville — Perkins Laundry Co., 209 East Market St., plans laundry, 634-38 South 6th St. $60,000. Engineer and architect not selected.

Ky., Louisville — Gibbs-Inman Co., 325 West Bway., having plans prepared by A. Loomis, 51 Todd Bldg., 5 story, 99 x 218 ft. printery, 9th St. and Bway. $300,000.

Ky., Louisville—Louisville Gas and Electric Co., 311 West Chestnut St., plans gas plant. $750,000. M. W. Walsh, c/o owner, engr.

O., Cleveland—Armature Coil Equipment Co., c/o A. J. Fathauer, 3202 Scranton Rd., had plans prepared 1 story, 40 x 113 ft., brick and steel factory, 2411 Forestdale Ave. $40,000. Private plans.

O., Cleveland—J. J. Klein and G. B. Harris, Engineers Bldg., having plans prepared by W. S. Lougee, 500 Marshall Bldg., 2 story, 75 x 100 ft. and 80 x 110 ft., brick, steel and concrete auto sales and service building additions, 6604 Euclid Ave. $125,000.

O., Cleveland—J. C. Kearns, c/o T. Cerny, archt., 4025 East 52nd St., had plans prepared 1 story, 40 x 65 ft., brick and steel garage, West 11th St. and Clark Ave. $40,000.

O., Cleveland—Beckman Co., 3167 Fulton Rd., had plans prepared by H. Eisele, archt. and engr., Engineers Bldg., 1 story, 43 x 110 ft., brick and steel factory, plain foundation, 3167 Fulton Rd. $40,000.

O., Middletown—Frank Smith Paper Co. plans 2 story, 200 x 500 ft., brick and steel plant, plain foundation, 1st St. Private plans.

O., Youngstown—Van Baalen Auto Co., 239 Wick Ave., soon takes bids 2 story, garage, Wick Ave. and Maple St. $75,000. Owsely Co., 1301 Mahoning Bank Bldg., archts.

Inc., South Whitley—A. D. White plans factory, $50,000. Engineer and architect not announced.

Mich., Detroit—Wolverine Auto Painting & Trimming Co., 5203 Martin Ave., having plans prepared by Smith, Hinchman & Grylls, 800 Marquette Bldg., 1 story, rein.-con., brick and steel factory, plain foundation, Martin Ave. $50,000.

Wis., Fox Lake — Fox Lake Auto Co. having plans prepared by Peacock & Frank, 445 Milwaukee St., Milwaukee, 1 story and basement, 66 x 87 ft., concrete garage, plain foundation, for Fox Lake Auto Co. $40,000.

Mich., Iron Mountain — Michigan Iron Land & Lumber Co. had plans prepared by A. Kahn, 1000 Marquette Bldg., Detroit, 1 story, 51 x 261 ft. concrete, brick and steel distilling plant, and 1 story, 115 x 145 ft. rein.-con., brick and steel storage building, with conveyor system.

Wis., Madison — See "Buildings" under store.

Wis., Merrill—Peterson & Juul, Lawson Bldg., had plans prepared by J. Bauman, Genesee St., remodeling and constructing 2 story, 40 x 70 ft., brick and concrete addition to garage, plain foundation. $40,000.

Wis., Oconto Falls—Falls Canning Co. plans to rebuild 1 and 2 story canning plant, incl. main building and warehouse, brick and concrete, plain foundations, recently destroyed by fire. $75,000. C. F. Meyer, pres. Engineer or architect not selected.

Wis., Port Wing — Northern Wisconsin Hydro Electric Power Co., c/o T. N. Okustrom, mgr., making plans 1 story, 60 x 90 ft. power plant, rein.-con. and brick, also power dam, 42 ft. head, on Iron River. Private plans.

Wis., Sheboygan—Commercial Furniture Co., 2739 West Chicago Ave., Chicago, plans 2 story, rein.-con., brick and steel plant, plain foundation, here. $50,000. A. H. and H. W. Strinje, mgrs. Engineer and architect not selected.

Wis., Sheboygan—J. Van der Voort, 533 Pennsylvania Ave., plans 4 story, 60 x 120 ft., garage and repair shop, brick, rein.-con. and steel, plain foundation. $70,000. Engineer and architect not selected.

Wis., South Milwaukee—Bucyrus Co. having preliminary plans prepared by F. D. Chase, Inc., engrs., 645 North Michigan Ave., Chicago, 1 and 2 story additions to plant, brick and steel, plain foundations.

Ia., Cedar Rapids—Economy Advertising Co., c/o S. W. Mercer, Johnson and Van Buren Sts., Iowa City, plans 2 story and basement, 100 x 135 ft., printing plant, brick and stone, here. $65,000. N. Hatton, 822 Wellington St., archt.

Minn., Little Falls—See "Miscellaneous."

Kan., Phillipsburg—Phillipsburg Ice & Cold Storage Co. making plans 1 story, 50 x 100 ft. plant. $50,000.

Kan., Wichita—Derby Oil Co., 203 North Handley St., having plans prepared by E. Sapp, engr., 21st and Washington Sts., 1 story addition to oil refinery, steel. $400,000.

Mo., Monett—St. Louis & San Francisco R.R., St. Louis, had plans prepared by R. C. Stephens, c/o owner, rebuilding 15 stall roundhouse, repair shops, etc., brick and concrete, here, to replace those destroyed by fire. $500,000.

Mo., St. Louis—N. Abraham, archt., Chemical Bldg., prepared plans 3 story, 85 x 120 ft., rein.-con. and brick warehouse, plain foundation, Chouteau Ave. $100,000. Owners name withheld.

Texas—See "Railways."

Tex., Dallas — Lacy Oak Flooring Co., c/o R. Lacy, pres., Longview, soon takes bids plant, 3 units, 100,000 ft. bm. daily. $150,000. Private plans.

Tex., Ft. Worth—World Publishing Co., 606 Commerce St., having plans prepared 2 story and basement, 150 x 200 ft., printing plant, rein.-con. and brick, plain foundation, Jones Ave. between 2nd and 3rd Sts. $500,000. Engineer and Architect not announced.

Okla., Ponca City—Voted $140,000 bonds 1 story, 46 x 70 ft., addition to municipal light plant, brick, Railroad Ave. A. M. Stalnaher, city engr. Noted Mar. 29.

Nev., Eureka—Eureka Crescents Mines c/o F. L. Torres, 103 Park Ave., New York City, plans smelter, 2,500 tons daily capacity, here, $1,250,000, also narrow gauge railroad from here to Hamilton, approx. 40 mi., and broad gauge between Palisade and smelter site. Bradley, Bruff & Labarthe, 85 2nd St., San Francisco, Calif., engrs.

Wash., Millwood—Inland Empire Paper Co. plans to increase storage capacity of plant, build 10 houses for employees, dam Spokane River, develop power required to operate plant, concrete tanks to replace wooden ones, construct 75,000 gal. water storage tank, new pipe lines and fire protection system. $150,000. Address Manager. Private plans.

Wash., Spokane—Spokane Refinery Co., c/o J. P. Graves, Old Natl. Bldg., plans refinery. $200,000.

Wash., Tacoma—Wheeler-Osgood Sash & Door Co., Tide Flats, plans 3 story addition, rein.-con. $250,000. G. J. Osgood, vice pres. and genl. mgr.

California—See "Miscellaneous."

Calif., Long Beach—Milton Realty Co., 114 Locust St., Los Angeles (representing owner), having plans prepared by Curlett & Beelman, Union Bank Bldg., Los Angeles, 5 story, 150 x 150 ft., rein.-con. garage, Atlantic St.

Calif., Los Angeles—Home Service Laundry Co., c/o W. Saunders, archt., Laughlin Bldg., had plans prepared 3 story, 110 x 115 ft., rein.-con. laundry, Crocker St.

Calif., Los Angeles — Los Angeles Ry. Corp., 11th St. and Bway., making plans 1 story, 40 x 45 ft., automatic power station, also plans 1 story, 28 x 280 ft. administration building, both brick. Private plans.

Calif., Newman—Associated Milk Products Co., 53 Clay St., San Francisco, plans rein.-con. creamery, here. $170,000. Engineer and architect not selected.

Calif., Riverside — Snowolene Refinery Co., Pacific Mutual Bldg., Los Angeles, plans refinery, daily capacity 1,000 bbl. crude oil and 12,500 bbl. gasoline. $250,000.

Calif., San Francisco—J. Graham Mfg. Co., 531 Mission St., having plans prepared by H. P. Hoyt, engr., Monadnock Bldg., 3 story, rein.-con., warehouse, 5th and Bryant Sts. To exceed $40,000. Engineer will handle construction. R. W. Kinney Co., 586 Howard St., lessee.

Calif., Santa Barbara—See "Buildings."

Calif., Yuba City—Earl Fruit Co., California Fruit Bldg., Sacramento, plans cold storage and fruit packing plant. To exceed $100,000.

Ont., Port Arthur—Hydro Electric Power Comn. of Ontario, 190 University Ave., Toronto, plans to install another 12,500 unit in plant on Nipigon River at Cameron Falls, 78 ft. head, vertical turbine connected to generator, 120 r.p.m., 10,600 k.v.a., 12,000 volts, 3 phase, 60 cycles, etc. $1,500,000. F. A. Gaby, ch. engr.

Ont., Port Stanley—Hydro Electric Power Comn., 190 University Ave., Toronto, plans steam power plant here, 1,000,000 hp. capacity. F. A. Gaby, ch. engr.

Ont., Toronto—Yolles & Rottenberg Ltd., 366 Adelaide St. W., plan 10 story and basement, 100 x 150 ft. concrete, brick, steel and tile factory, York and Front Sts. $1,000,000. Private plans.

Ont., Walters Falls—W. Bonnell plans to rebuild plant recently destroyed by fire. $50,000.

Man., Fort Alexander—Manitoba Pulp & Paper Co. plans pulp mill. $4,000,000.

BIDS DESIRED

Pa., Phila.—M. W. Easby, engr., 1615 Chestnut St., taking bids 3 story, 80 x 100 ft. brick and steel plant, plain foundation, 68th and Greenway Sts., for Beswick & Clay, 25th and Callowhill Sts. $85,000.

Pa., Pittsburgh—Dusenberry Baking Co., 2138 Lusten St., taking bids 3 story and basement, 50 x 100 ft. bakery, concrete, brick, steel and tile, Forbes St. Rubin & VeShancy, Union Arcade, archts.

O., Cleveland—Kronheim Furniture Mfg. Co., 2043 East 55th St., taking bids and opens same about Apr. 20, 4 story, 56 x 120

Industrial Works (Continued)

ft. factory and warehouse, brick and steel, plain foundation, $75,000. Steffens & Steffens, Williamson Bldg., archts. Noted June 30.

O., Norwood (Cincinnati P. O.)—Apr. 16, by S. Hannaford & Sons, archts., 1024 Dixie Terminal Bldg., Cincinnati, 2 story, 60 x 240 ft., rein.-con. factory, plain foundation, Park Ave., here, for Kemper-Thomas Co., Park Ave. To exceed $150,000. Noted Dec. 14.

Ill., Chicago — Fox & Fox, archts., 38 South Dearborn St., receiving bids 1 story, 105 x 300 ft. factory, rein.-con., brick and steel, South Kedzie Ave., near drainage canal, for N. T. Brenner of Amer. Insulated Wire & Cable Co., 954 West 21st St., $200,000.

Ill., Chicago—H. A. Mulder, archt., 140 South Dearborn St., receiving bids 1 story, 100 x 125 ft. auto sales and service station, rein.-con., brick and steel, 4143-53 Milwaukee Ave., for Cooper & Kirk, c/o architect. $40,000.

Wis., Green Bay—Sheboygan Dairy Products Co., 134 South Adams St., taking bids 1 story, 50 x 57 ft. dairy, brick, rein.-con. and steel, plain foundation. $40,000. E. H. Regal, mgr. Private plans.

Wis., Madison—C. B. Fritz, 138 North Frances St., taking bids 1 story, 50 x 110 ft. planing mill, brick, rein.-con. and steel, plain foundation, $50,000. Claude & Starck, Badger Annex, archts. Noted Mar. 29.

Wis., Milwaukee—Apr. 16, by Salvation Army, c/o P. B. Fynn, adjutant, 43 Juneau Ave., 2 and 3 story, 34 x 76 ft., brick and concrete warehouse, plain and wood pile foundation, Juneau Ave. $55,000. Noted March 8.

Wis., West Allis—Hunt & Grassold, engrs. and archts., 445 Milwaukee St., Milwaukee, taking bids 2 story, 60 x 87 ft., brick, tile and concrete garage, plain foundation, 53rd Ave., for Burbach Auto Service Co., 5225 Greenfield Ave. $40,000. Noted Feb. 1.

Minn., Plainview — Wisconsin Pea Canners Co., c/o H. L. Wedertz, mgr., South 6th and Franklin Sts., Manitowoc, Wis., taking bids 4 story, 50 x 60 ft. factory, brick and rein.-con., plain foundation, here. $40,000. Smith & Reynolds, Dempsey Bldg., Manitowoc, archts. Noted Mar. 22.

Calif., San Francisco—J. Reid, Jr., archt., 1st Natl. Bank Bldg., receiving bids 1 and 2 story, garage and dairy, concrete and steel, McAllister St. near Octavia St., for Millbrae Dairy, 834 Octavia St. To exceed $40,000. Structural steel and cast iron work let to Foundation Co., 58 Sutter St., San Francisco, $23,194.

BIDS RECEIVED

O., Marysville—Dept. Pub. Welfare, 9th and Oak Sts., Columbus, Apr. 4, 48 x 60 ft. brick power plant, 2 story and basement, 28 x 150 ft. brick and concrete cottage and 2 story and basement, 22 x 24 ft. superintendent's cottage, here, from E. Elford, 207 East Gay St., Columbus, $217,900.

CONTRACTS AWARDED

R. I., Woonsocket—River Spinning Mills, 3 story, 108 x 110 ft. mill addition, brick and timber, plain foundation, to Bouvier-Brien Constr. Co., Sayles St. Archts. est. $75,000.

Conn., New Haven—Connecticut Co., 127 Church St., 1 story, 36 x 72 ft. power plant addition, brick, steel and concrete, Grand Ave., to Sperry Eng. Co., 136 Chapel St. Archts. est. $40,000. Noted Nov. 30.

Conn., South Norwalk—Gabbe Mole Wks., Inc., 24 Raymond St., 3 story, 60 x 170 ft. factory, 30 x 40 ft. boiler house, circular stack, 110 ft. high, all brick to L. A. Miller, 22 Church St., Meriden, $100,000. Noted Dec. 14.

N. Y., Brooklyn—M. Koppel, c/o E. M. Adelsohn, archt. and engr., 1778 Pitkin Ave., will build brick, steel and concrete factory, plain foundation, Belmont St., by day labor. $50,000.

N. Y., Long Island City—H. J. Leverich, c/o J. DeHart, archt. and engr., 1039 Fox St., New York, will build 1 story, 100 x 120 ft., brick, steel and concrete garage, plain foundation, 2nd Ave., here, by day labor. $50,000.

N. Y., Newburgh—Hudson River Woolen Mills, North Windsor St., rein.-con. and steel mill addition, plain foundation, to Barney-Ahlers Constr. Corp., 110 West 40th St., New York. Archts. est. $50,000.

N. Y., New Rochelle—J. A. Mahlstedt & Co., Columbia Pl., 4 story, 60 x 120 ft., steel and rein.-con. warehouse, plain foundation, to Barney-Ahlers Constr. Corp., 110 West 40th St., New York. Archts. est. $100,000.

N. Y., New York — Handry Bros., c/o Vitalo & Calhane, archts. and engrs., 56 West 45th St., will build 1 story, 185 x 500 ft., brick, steel and concrete garage, plain foundation, Webster Ave. near 202nd St., by day labor. $125,000.

N. Y., Schenectady — General Electric Co., River Rd., 1 story, 46 x 428 ft. concrete, brick and steel addition to Bldg. 60, to Brown & Lowe, 361 Foster Ave., $70,000; 1 story, 120 x 203 ft., brick and steel addition to Bldg. 109, to Austin Co., 16112 Euclid Ave., Cleveland, O., $52,000; 100 x 850 ft. concrete, brick and steel addition to Bldg. 85, to H. K. Ferguson Co., 6523 Euclid Ave., Cleveland, O., $250,000. Noted Mar. 22 and Apr. 5.

N. Y., Syracuse—Oak Knitting Co., West Division St., masonry contract for 4 story, 50 x 100 ft., brick and steel factory, to Henry Funda Constr. Co., 201 Edison St.; steel, to Syracuse Bng. Co., Everson Bldg.

N. Y., Yonkers—Alexander Smith & Sons Carpet Co., Elm and Palisade Aves., 2 carding mills, rein.-con. and steel, plain foundations, Sawmill River Rd., to Barney-Ahlers Constr. Co., 110 West 40th St., New York City. Archts. est. $500,000.

Pa., Phila. — Ketterlinus Lithographic Mfg. Co., 4th and Arch Sts., 8 story and basement, 55 x 140 ft. rein.-con. and brick plant, 4th and Arch Sts., to Turner Constr. Co., 1613 Sansom St. $300,000. Noted Dec. 7.

D. C., Wash.—Peoples Drug Store, 503 7th St., N. W., rebuilding warehouse, 1422 1st St., W. E., to C. Tompkins, 1612 Park Rd., $50,000.

N. C., Duke—Erwin Cotton Mill Co., Durham, large cotton mill, 40,000 spindles, here, to J. Sirrine & Co., South Main St., Greenville, S. C.

W. Va., Glenville—Hall—Smith & Hall, 1 story and basement, 66 x 110 ft. garage, brick, tile and stone, to Garrett Bldg. Co., Glenville. Archts. est. $40,000.

O., Cleveland—See "Buildings."

O., Cleveland — H. F. Neighbors, 1156 Hanna Bldg., 1 story garage and service building, brick, steel and concrete, plain foundation, East 23rd St. near Chester Ave., to W. I. Thompson & Son Co., 5103 Euclid Ave. Archts. est. $50,000.

O., Cleveland — Sands Mfg. Co., 5307 Sweeney Ave., 2 story, 85 x 91 ft., brick, steel and concrete factory addition, 5407 Sweeney Ave., to Dresser-Minton Co., 880 The Arcade. Archts. est. $60,000.

O., Columbus—Pfeifer Show Print Co., Noble and Pearl Sts., 2 story and basement, 60 x 187 ft., brick and concrete plant, Fulton St., to J. W. Heckalb, 79 Ruggery Bldg., $75,000.

Mich., Detroit — Birmingham Sand & Gravel Co., 2690 East Atwater St., 2 story, rein.-con. warehouse, Jos. Campau Ave., to Natl. Constr. Co., 1031 Dime Bank Bldg. Archts. est. $50,000.

Ill., Chicago — Geib & Schaeffer, 1751 North Central Park Ave., 3 story, 85 x 165 ft., rein.-con., brick and steel factory addition, to M. Raun, c/o owner. Archts. est. $200,000. Noted Feb. 22.

Wis., Madison—F. L. Kronenberg, archt., Carroll Blk., taking bids 2 story, 66 x 165 ft., garage and repair shop, brick, rein.-con. and steel, plain foundation, Washington St. for Capitol City Garage Co., South Pickney St. $60,000. Noted Dec. 28.

Wis., Milwaukee—Fried, Ostermann Co., 623 Reed St., 3 story and basement, 73 x 115 ft., brick and timber factory, plain foundation, to Universal Constr. Co., 915 Chestnut St. Engrs. est. $70,000.

Wis., Milwaukee—C. Thomsen, 237 Cambridge Ave., 1 story and basement, 50 x 78 ft., concrete, garage, plain foundation, Farwell Ave., to Madson, Christenson & Ingbretson, 1289 National Ave. Archts. est. $40,000.

Wis., Plymouth—Peter Welling Co. will build 2 story, 75 x 100 ft., carpenter and woodworking shop, rein.-con. and brick, plain foundation, by day labor. $40,000. Private plans.

Wis., Two Rivers—Aluminum Goods Mfg. Co., 15th and Franklin Sts., Manitowoc, 1 story, boiler house, brick and concrete, plain foundation, also 125 ft. brick stack, here, to W. W. Oeffein, 86 Michigan St., Milwaukee. Engrs. est. $40,000.

Tex., Greenville—Greenville Mill & Elevator Co., addition to present mill and elevator, rein.-con., plain foundation, to Reyburn Eng. & Constr. Co., 609 Waldheim Bldg., Kansas City, Mo., $100,000. Noted Jan. 4.

Okla., Muskogee — Oklahoma General Power Co., will build 2 story and basement, power plant, rein.-con., brick and steel, incl. six 1,000 hp. boilers, one 20,000 hp. generator and one 10,000 hp. generator, by day labor. $3,000,000. G. F. Pythian, supt.

Ore., Hillsboro — Ray-Mailing Canning Co., will build 2 story, 80 x 85 ft. factory, concrete and brick, by day labor. $50,000. C. F. Noak, Hillsboro, archt. and engr.

Calif., Los Angeles — Los Angeles Soap Co., 633 East 1st St., 5 story, 60 x 270 ft., warehouse and office, rein.-con., to Weymouth-Crowell Co., 2026 West 9th St. Archts. est. $173,800. Noted Mar. 22.

Calif., Los Angeles—Union Pacific R.R., 15th and Dodge Sts., roundhouse and engine house, freight car repair shops, locomotive, and coach shops, loading docks, wood and steel, etc., to Lynch-Cannon Co., 840 Alameda St. Engrs. est. $1,500,000-$1,750,000. Noted Jan. 4.

Calif., Los Angeles—See "Buildings."

Calif., San Francisco—M. Stulsaft Co., 647 Mission St., will build 3 story, rein.-con., warehouse, show rooms and office, 5th and Bryant Sts., by day labor, under supervision of H. P. Hoyt, engr., Monadnock Bldg. To exceed $50,000.

Calif., San Francisco — See "Bids Desired."

Calif., San Francisco — New Method Laundry, 435 Sanchez St., 2 story, laundry, rein.-con., 17th and Sanchez Sts., to R. McLeran & Co., Hearst Bldg., $75,000.

Calif., Santa Rosa—Natl. Ice and Cold Storage Co., Postal Telegraph Bldg., San Francisco, addition to ice plant, here, to E. Hildebrand, Santa Rosa, $50,000. Noted Jan. 18.

Calif., San Pedro—Pacific Coast Borax Co., 3 story factory, 1 and 2 story machine shop and boiler house, rein.-con., to Davidson Constr. Co., 1445 East 16th St., Los Angeles, $415,000. Noted Feb. 22.

B. C., Ocean Falls—Pacific Mills Ltd., 510 Hastings St. W., Vancouver, 35 x 75 ft. rein.-con. plant, 90 ft. high, to Robertson & Rendell, 850 Hastings St. W., Vancouver, $60,000.

Buildings

PROPOSED WORK

Mass., Boston—Dormitories, etc.—Massachusetts Institute of Technology preparing plans new dormitories and gymnasium. $2,500,000. S. W. Stratton, pres.

Mass., Boston—Fire Signal Station—Dept. Pub. Wks. had plans prepared by J. T. Ball, engr. and archt., c/o Pub. Wks. Dept., 1 story and basement, 75 x 120 ft., limestone, woodpile foundation, Boyleston St.; also changing fire alarm signal system throughout city. $500,000.

Mass., Dorchester (Boston P. O.)—Bath Houses—Plans concrete bath houses on Strandway. $200,000. J. A. Rourke, comr. pub. wks.

Conn., Hartford—Church—South Baptist and First Baptist Churches, plan church, Main and Elm Sts. $500,000. Address H. S. Spencer, 280 Sigourney St., secy. G. E. Merill, c/o Amer. Home Mission Society, consult. archt.

N. Y., Albany—School—Bd. Educ. takes bids latter part of month for school, Western Ave. $250,000.

N. Y., New York—Apartment Hotel—Six-Twenty Park Ave. Corp., c/o J. E. R. Carpenter, archt. and engr., 598 Madison Ave., having plans prepared 50 x 100 ft., brick, steel and stone, plain foundation, Park Ave. and 65th St. $800,000.

N. Y., New York—Exchange—New York Telephone Co., 15 Dey St., had plans prepared by McKenzie Voorhies & Gmelin, archts. and engrs., 342 Madison Ave., brick, steel and stone, plain foundation, 193 Manhattan Ave. $400,000.

N. Y., New York—Synagogue and School—Buchman & Kahn, archts. and engrs., 49 West 45th St., soon let contract 4 story, brick, steel and stone, plain foundation, Simpson St., for Huntspoint Talmud Torah, c/o architects. $300,000.

N. Y., Rochester—Office—See "Industrial Works."

N. Y., Saranac Lake—Infirmary—Scopes & Feustmann, archts., Saranac Lake, soon take bids 2 story, 40 x 190 ft., brick and stone, at Trudeau Sanitorium, here, for C. H. Ludington, Phila. (street address not available). $150,000.

N. Y., Sydney—City Hall, etc.—Takes bids about Apr. 15, new city hall and juvenile detention house, $200,000. A. Fitzgerald, mayor.

N. Y., Utica — Office — See "Industrial Works."

Pa., Lancaster — Passenger Station — Pennsylvania R.R., Broad St. Sta., Phila., soon takes bids 1 and 2 story, 55 x 200 ft. brick, steel and stone, plain foundation, here. $300,000. W. H. Cooksman, Broad St. Sta., Phila., archt.

Buildings (Continued)

Pa., Nanticoke — Orphanage — Scranton Diocese Polish Catholics having plans prepared by A. I. Prawdzik, archt., Scranton (street address not available), brick, concrete blocks and steel, at Sheatown near here. $150,000.

Pa., Phila.—Hospital—A. H. Brockie, archt., 254 South 15th St., soon takes bids 3 story, stone, Penn and Chelten Aves., for Germantown Hospital, Penn and Chew Sts. $250,000.

Pa., Phila.—Office and Store—S. T. Freeman, 1519 Chestnut St., soon takes bids 6 story and basement, rein.-con., brick, steel and stone, 1808-10 Chestnut St. $750,000. Tilden & Register, 1525 Locust St. archts.

D. C., Wash.—Apartment—M. Cafritz, 913 15th St., N.W., having plans prepared by H. E. Warwick, archt., 1108 16th St., apartment and garage, 19th and N Sts., N.W. $1,000,000.

D. C., Wash.—Apartment-Hotel—William Penn Hotel Co. plans apartment-hotel, 13th St. and Massachusetts Ave. $1,000,000. M. G. Lepley, 1402 H St., N.W., archt.

Ky., Louisville—Club—Pendennis Club, 324 West Winter St., plans 5 or 9 story, brick and steel. $1,000,000. B. B. Davis, Norton Bldg., archt. and engr.

Ky., Louisville—Temple—Kosairs having plans prepared by Joseph & Joseph, archts. and engrs., Francis Bldg., 6 story, 200 x 250 ft., East Bway. $1,250,000.

O., Akron—Bank and Office—Akron Saving & Loan Co., c/o A. Hopkins, archt. and engr., 101 Park Ave., New York City, having plans prepared 21 story, brick, steel and stone, plain foundation, here.

O., Akron—High School—Bd. Educ. having plans prepared by M. M. Karnoski, 102 South Union St., 2 story and basement, brick, steel and concrete, Brown and Archwood Aves. $750,000.

O., Cincinnati—Office—Western & Southern Life Insurance Co., 4th St. and Bway., having plans prepared by H. Hake, Telephone Bldg., 12 story, 90 x 94 ft., rein.-con., plain foundation. $600,000.

O., Cleveland—Theatre and Dance Hall—Miles Theatre Co., East 9th St. and Prospect Ave., plans 2 story, brick, steel and concrete. $500,000. C. H. Miles, pres. C. Howard Crane, 542 Griswold St., Detroit, Mich., archt.

O., Cleveland Heights (Warrensville P. O.)—Apartment—Heights-Fairmount Co., c/o G. W. Hale, 627 Hanna Annex, Cleveland, having plans prepared by H. T. Jeffrey, 627 Hanna Bldg., Cleveland, 6 story and basement, 120,000 sq.ft. floor space, brick, steel and concrete, Cedar Rd. and Fairmount Blvd., here. $750,000.

O., Dayton—Bank—Third National Bank, East 3rd St., having revised plans prepared by Schenck & Williams, Mutual Home Bldg., 2 story and basement, steel, stone and tile, plain foundation, North Main St. $500,000.

O., Marysville—Cottages—See "Industrial Works."

O., Mt. Vernon—Memorial and Auditorium—Memorial Comn. had plans prepared by Richards, McCarty & Bulford, 584 East Broad St., Columbus, and soon takes bids 3 story and basement, 38 x 91 ft. memorial and 64 x 122 ft. auditorium. $200,000. Noted Nov. 2.

Mich., Detroit—Community—R. F. Darnell, 4505 Seebaldt Ave., having plans prepared by Beckett & Akitt, 73 Monroe Ave., 4 story and basement, 100 x 200 ft. rein.-con., brick and steel, plain foundation, Grand River Ave. $500,000.

Mich., East Lansing—Church—W. E. N. Hunter, archt., Washington Blvd., Detroit, takes bids about July 1, 2 story and basement, 120 x 140 ft., rein.-con., brick and stone, plain foundation, for Peoples Church. $200,000.

Ill., Chicago—Apartment—W. H. McKillip, c/o R. [illegible] Hyde, archt., 8 South Dearborn St., plans 10 story, 100 x 150 ft., rein.-con., brick and steel, Sheridan Ave. and Berwyn St. $1,250,000.

Wis., Mt. Horeb—Theatre and Store—A. J. Bakken having plans prepared 2 story and basement, 48 x 125 ft., brick, rein.-con and steel, plain foundation. Private plans.

Ia., Des Moines — Schools — Bd. Educ. plans several grade schools, $500,000, Vorse, Kraetsch & Kraetsch, S. and L. Bldg., archts.; 1 grade school, $75,000, B. Higgins, 420 Securities Bldg., archt.; one grade school, $75,000, R. Liebsle, 1270 East 9th St., archt.; 1 junior high, East 14th and University Ave., $500,000, Proudfoot, Bird & Rawson, Hubbell Bldg., archts.; 1 junior high, Ovid and Cornell Sts., $200,000, Boyd & Moore, Fine Arts Bldg., archts. G. L. Garton, secy. Noted Apr. 5.

Kan., Ottawa — High School — Election soon to vote for $546,000 bond issue for high school and miscellaneous improvements. Engineer and architect not selected.

Kan., Sabetha—Hospital—St. Anthony Hospital had plans prepared by C. A. Smith, 109½ Santa Fe Ave., Salina, 3 story and basement, 44 x 140 ft., rein.-con. and brick addition. $150,000.

Kan., Topeka — Auditorium — City had plans prepared by T. W. Williamson & Co., 312 Central National Bank Bldg., 2 story and basement, rein.-con. and brick. $175,000.

Kan., Wichita — Home — Sisters of St. Joseph, 530 North Market St., plan 4 story, 40 x 120 ft. $150,000. Engineer and architect not selected.

Kan., Wichita—Temple—Scottish Rite Masonic Assn. having plans prepared by Eberson & Weaver, Orpheum Bldg., 6 story and basement, 75 x 140 ft., rein.-con., brick and terra cotta, Market and William Sts., $400,000.

Mo., Hillcrest (Rill P. O.)—Seminary—Concordio Seminary Assn., South Jefferson Ave., St. Louis, had plans prepared by Day & Klauder, Franklin Bank Bldg., Phila., twenty 2 and 3 story buildings on 71 acre tract, near here. To exceed $2,000,000.

Mo., Kansas City—Theatre and Store—Watson-Roth Building & Investment Co., c/o Iris Theatre Bldg., 31st St. and Troost Ave., having preliminary plans prepared by C. Boller & Bro., 508 Ridge Bldg., 2 story, basement and balcony, 133 x 250 ft., rein.-con. brick, steel and terra cotta, Troost Ave. near 47th St. $400,000.

Mo., St. Louis—Office—Syndicate, c/o Hewson Realty Co., archts., Wainwright Bldg., had plans prepared 6 story, 54 x 152 ft., rein.-con. and brick, plain foundation, Olive St. $250,000.

Mo., St. Louis—School—St. Anthony Catholic Parish, Meramec St. near Compton St., soon lets contract 3 story, 75 x 140 ft., rein.-con. and brick, plain foundation, incl. athletic field, Meramec St. $200,000. Private plans.

Tex., Dallas—School—Voted $1,000,000 bond issue for schools. G. D. Fairtrace, city engr.

Tex., Galveston—Club and Office—Y. W. C. A., 707 23rd St., takes bids between Apr. 25 and May 10, 3 story, 150 ft. front, concrete and tile, 21st St. and Ave. G. $150,000. W. W. Watkins, Scanlan Bldg., Houston, archt. and engr.

Tex., San Antonio — Hospital — Baptist Church having plans prepared by W. H. Noonan, Moore Bldg., and takes bids within 80 days, 3 story wing. $250,000. Noted Sept. 7.

Tex., San Antonio—Office—Travis & St. Mary Co. having plans prepared by W. E. Simpson, engr., National Bank Commerce Bldg., and Phelps & Dewees, archts, Gunter Bldg., 10 story, 70 x 110 ft., rein.-con. and brick, Travis and St. Marys Sts. $250,000.

Okla., Chickasha — School — Bd. Educ. having preliminary plans prepared by Hawk & Parr, 101 Magnolia Bldg., Oklahoma City, rein.-con., stone and brick addition. $175,000. Noted Feb. 22.

Okla., Shawnee—Temple—Masonic Lodge plans 5 story and basement, 100 x 140 ft., rein.-con., brick and stone. $300,000. U. S. Hart, member building com. Engineer and architect not selected.

Wash., Seattle—Apartment—H. Reinerstein, University Commercial Club, plans 4 story, brick and terra cotta, East 42nd and Brooklyn Sts. $160,000.

Wash., Tacoma—School—Election May 8, to vote on $2,400,000 bonds for new school buildings. Address School Bd.

Ore., Astoria — Club — C. T. Diamond, archt., Astoria, takes bids about June 3, 4 story and basement, rein.-con., 11th and Exchange Sts., for Elks' Club, F. C. Clinton, secy. $200,000.

Calif., Alameda—High School—Alameda High School Dist. to vote on $750,000 bonds high school, 74 classrooms, auditorium and gymnasium. Engineer and architect not selected.

Calif., Fresno—Hotel and Store—Shepherd & Teague, c/o B. G. McDougall, archt., 381 Bush St., San Francisco, having plans prepared 5 story, rein.-con., Inyo and J Sts. $350,000.

Calif., Huntington Park — Hotel—W. M. Brooks, 1315 South Flower St., (representing owner) plans 225 rooms, probably 6 story and basement, rein.-con. To exceed $150,000. Engineer and architect not selected.

Calif., Los Angeles—Administration—See "Industrial Works."

Calif., Los Angeles—Hall and Hospital—Los Angeles Co. plans to vote on $2,000,000 bonds for hall of justice, which will include county jail; $5,000,000 bonds for additions to county hospital group.

Calif., Los Angeles—Office—R. Garvey, et al., c/o E. Bergstrom, archt., Citizens' Natl. Bank Bldg., having plans prepared 14 story and basement, brick and steel, Bway. near 2nd St.

Calif., Los Angeles—Store and Office—R. Stern, c/o E. M. Frazier, archt., 2401 West 6th St., had plans prepared 18 story and basement, rein.-con., Hollywood and Vine Sts. To exceed $500,000.

Calif., Marysville—Hotel—W. C. Lowe, archt., Monadnock Bldg., San Francisco, preparing preliminary plans 6 story and basement, rein.-con. $300,000. Owner's name withheld.

Calif., Oakland—Apartment—R. F. Bancroft and F. H. Slocombe, archts., St. Marks Hotel, preparing plans 8 story and basement, rein.-con. $150,000. Owners name withheld.

Calif., Oakland—Store and Office—Franklin Investment Co., c/o E. T. Foulkes, archt., Crocker Bldg., San Francisco, having plans prepared 3 story and basement, rein.-con., Franklin St. near 15th St. $150,000.

Calif., Palms—Sanitarium—Porter Milk Diet Sanitarium, 767 Sunrise Blvd., Long Beach, had plans prepared group of buildings, incl. main sanitarium, cottage, etc., mostly frame construction, here. To exceed $150,000.

Calif., Pasadena—Theatre and Store—Community Theatre Assn. having plans prepared by E. Grey, Bank of Italy Bldg., Los Angeles, and Littleton Co., 608 East Colorado St., Pasadena, rein.-con. To exceed $150,000.

Calif., Riverside—School—Soon takes bids 2 story and basement, home economics building, brick Terracina Dr. $150,000. G. S. Wilson, 646 West 9th St., archt. Noted Mar. 1.

Calif., Sacramento—Office—C. Leroy, et al., 908 7th St., plans 7 story, fireproof, 7th St. near J St. $250,000. Engineer and architect not selected.

Calif., San Diego—Convention Hall, etc—See "Miscellaneous."

Calif., San Francisco — Church — St. Domonics Church soon takes bids rein.-con. steel and terra cotta, Bush and Steiner Sts. $500,000. L. Beezer, 1915 Steiner St. archt. P. Zucco, 166 Geary St., engr.

Calif., San Pedro—Hotel—R. Falkenrath, archt., 412 Baker-Detwiler Bldg., Los Angeles, preparing plans rein.-con., 400 rooms, probably 4 story. Owners name withheld.

Calif., Santa Barbara—Orphanage—St. Vincent's Orphanage, having plans prepared by Soule, Murphy & Hastings, 1206 State St., orphanage, power house and laundry. To exceed $250,000.

Calif., Santa Barbara — Schools — Bd. Educ. soon takes bids Washington and Franklin Schools. $200,000 available. Soule, Hastings and Murphy, 1206 South State St., archts.

Ont., Brantford — Mausoleum — Canada Mausoleum Co., Brantford, plans 400 crypt mausoleum, concrete and stone, in Mount Hope Cemetery. $150,000.

Ont., Kitchener—Hospital—Sisters of St Joseph, A. L. Zinger, 57 Duke St., chn building com., raising $300,000 for 3 story and basement, brick. Engineer and architect not appointed.

Ont., St. Thomas—Hospital—City having plans prepared by Darrach & Findlay, 420 Talbot St., and soon takes bids 2 or 3 story and basement, concrete, brick and steel memorial hospital. $150,000. W. R. Doherty, city clk.

Ont., Toronto—Church—Danforth Ave. Methodist Church having plans prepared by G. H. Miller & Co., 93 Yonge St., 1 story, brick, steel and stone. $150,000.

Ont., Toronto—Church—Church of the Holy Name, M. Cline, rector, 9 Morcow Ave., having plans prepared by A. W. Holmes, 79 St. Joseph St., 1 story and basement, brick, or brick and stone. $200,000.

Ont., Toronto—Church—St. Peters Roman Catholic Church, 643 Markham St., having plans prepared by J. P. Hynes, 73 King St. W., 1 story and basement, brick and stone. $500,000.

Ont., Toronto—Hospital—City having plans prepared by W. Price, city archt. and will soon take bids 3 story, concrete, brick and steel, Surrey Pl. $400,000.

Ont., Toronto—Hospital—Salvation Army, 20 Albert St., plans brick hospital, concrete foundation, probably 3 story, $200,000. Engineer and architect not selected.

Ont., Toronto—Office—Canadian National Rys., New Union Sta., plans 25 or more stories and basement, 100 x 140 ft., rein.-con., brick, steel and stone, King and Yonge Sts. $2,000,000. A. F. Stewart, 407 Old Union Sta., ch. engr.

Ont., Toronto—School—Bd. Educ., 155 College St., having sketches made by C. Dyson, 155 College St., 2 or 3 story, concrete, brick and steel, in Ward 4. $500,000.

Ont., Toronto—School—Separate School Bd., 477 Jarvis St., had plans prepared by J. M. Cowan, 911 Bay St., 2 story and basement, 8 room, concrete and brick. $150,000.

Buildings (Continued)

BIDS DESIRED

Mass., Lawrence—City Hall—Apr. 16, by Pub. Wks. Dept., concrete and brick. $300,000. Adams & Brown, engrs., Lawrence. Noted Feb. 1.

Mass., Stamford — Bank — Apr. 16, by **Conn.,** Fidelity Title & Trust Co., 3 story, 45 x 111 ft., brick, plain foundation,, Atlantic St. $150,000. H. L. Walker, 144 East 54th St., New York City, engr.

Conn., Waterbury—Church—Apr. 21, by S. Blojejowski, pastor St. Stanislaus Roman Catholic Church, 80 x 120 ft., brick and artificial stone, plain foundation, East Farms. $150,000. L. A. Walsh, 51 Leavenworth St., archt.

N. Y., Newburgh—Bank and Office—Weary & Alford, archts, 1923 Calumet Ave., Chicago, taking bids 3 story, 60 x 160 ft., rein.-con., brick and steel, here, for Newburgh Savings Bank, 38 Smith St. $500,000.

N. Y., New York—Apartment Hotel—E. Margolies, 19 East 33rd St., will build 12 story, brick, steel and stone, plain foundation, 47th St. and 5th Ave. $1,000,000. Work will be done by separate contracts. Private plans.

N. Y., New York—Loft—G. Backer, Inc., 295 5th Ave., will build 12 story, brick, steel and stone, plain foundation, West 47th St. Work will be done by separate contracts. Private plans.

N. Y., Watertown—Business—Apr. 23, by D. D. Kieff, archt., Flower Bldg., brick, concrete and steel, Public Sq., for F. A. Empsall, 126 Flower Ave. To exceed $200,000.

N. J., Haddon Heights—High School—Apr. 17, by Bd. Educ., 3 story, 75 x 236 ft. and 55 x 77 ft., rein.-con., brick and steel, plain foundation. $550,000. C. R. Peddle, 129 South 4th St., Phila., archt. Noted Dec. 7.

N. J., Lakewood—School—Apr. 26, by Bd. Educ., 2 story and basement, 140 x 180 ft. school. Guilbert & Betelle, 546 Broad St., Newark, engrs.

N. J., Newark — Church — Apr. 16, by N. J. Convery, archt., 942 Broad St., brick and stone, plain foundation, Abington Ave. and 7th St., for St. Francis Xavier Church, c/o architect. $400,000.

N. J., Trenton—Bank—Apr. 16, by A. C. Bossom, archt., 680 5th Ave., New York City, 14 story, 76 x 149 ft., brick, steel and concrete, West State St., here, for Trenton Trust Co., State St. and Chancery Lane. $800,000. Noted Jan. 11.

Pa., Erie—Apr. 16, by Y.W.C.A., 134 East 44th St., New York City, 3 story, brick, steel and stone, plain foundation, West 5th St., here. $200,000. W. F. Thompson, 342 Madison Ave., New York City, archt. and engr. Noted Mar. 29.

Pa., Indiana—Church—First Methodist Episcopal Church taking bids 1 story, 80 x 110 ft. with 40 x 40 ft. wing. $250,000. J. T. Simpson, 620 Essex Bldg., Newark, N. J., archt.

Pa., Phila.—Church—Lachman & Murphy, archts., Drexel Bldg., taking bids 2 story and basement, brick, steel and stone, plain foundation, 70th and Woodland Aves., for Siloam Methodist Church. $170,000.

Pa., Phila. — Clubhouse — T. B. Epps, archt., 101 Tremont St., Boston, taking bids 3 and 4 story, 21 x 103 ft. and 24 x 36 ft. brick, steel and stone, plain foundation, 3706 Locust St., here, for Kappa Sigma Fraternity, c/o W. L. Blithe, 608 Chestnut St. $250,000.

Pa., Swarthmore — High School — Bd. Educ. taking bids 2½ story and basement, 66 x 106 ft. and 60 x 98 ft. rein.-con., brick and steel, plain foundation. $250,000. Simon & Simon, 249 South Juniper St., Phila., archts.

W. Va., Morgantown—Chemistry—June 1, by State Bd. Control, Charleston, 4 story and basement, here. J. S. Lakin, Charleston, pres. P. A. Davis, 3rd and Dunlap Sts., Phila., archts.; adv. this issue.

La., Baton Rouge—Administration—Apr. 20, by Building Comn. Louisiana State University, two 1 story, 50 x 100 ft. administration buildings, also Boyd Memorial Hall and Academic Law Building, both 2 story, 54 x 103 ft. $500,000. T. Link, Baton Rouge, state archt.

O., Canton—Store—Stern-Mann Co., Market Ave. N, taking bids and opens same about Apr. 20, 2 and 3 story, 33 x 200 ft., brick, steel and concrete addition. $150,000. A. Garfield, National City Bldg., Cleveland, archt. Noted Jan. 18.

O., Cleveland Heights (Warrensville, P. O.)—Apartment—F. Koslen, 2857 Mayfield Rd., taking bids 3 story and basement, 88 x 97 ft., brick and timber, plain foundation, 2104 Lennox Rd. $160,000. M. Weis, 617 Union Bldg., Cleveland, archt. Noted Feb. 22.

O., Lakewood (Cleveland P. O.)—Library—Apr. 24, by Lakewood Library Bd., c/o G. W. Grill, secy., 15425 Detroit Ave., 2 story, brick, steel and concrete addition $150,000. C. W. Hopkinson, Rose Bldg., Cleveland, archt. Noted Nov. 30.

Mich., Detroit—Apartment—Apr. 20, by F. E. Hill, archt., 711 Empire Bldg., 4 story and basement, 85 x 106 ft. brick, steel and stone, plain foundation, East Grand Blvd., for C. French, c/o archt. $175,000.

Mich., Lapeer—School—Apr. 17, by A. C. Holland, secy. Bd. Educ., 2 story and basement, rein.-con., brick and steel. $150,000. R. A. Leroy, Pratt Bldg., Kalamazoo, archt.

Ill., Chicago—Apartment—P. Ferrone, c/o Consolidated Builders, 10 South Waller Ave., receiving bids 3 story, 75 x 120 ft., rein.-con., brick and steel, 5300-06 West Van Buren St. $150,000. A. V. Capraro, 64 West Randolph St., archt.

Ill., Chicago—Apartment—Lindstrom & Johnson, 30 North Dearborn St., receiving bids 3 story, 130 x 225 ft., rein.-con., brick and steel, 4627-37 Drexel Blvd. $500,000. A. Sandegren, 116 East Oak St., archt.

Ill., Chicago—Apartment—P. F. Olsen, archt., 720 Cass St., receiving bids 3 story and basement, 103 x 192 ft., rein.-con., brick and steel, Talman St. and Blaine Pl. $250,000. Owner's name withheld.

Ill., Chicago—Apartment—C. J. Ringbloom, 1110 West 8th St., receiving bids 3 story, 106 x 124 ft., rein.-con., brick and steel, 2208-16 East 70th St. $150,000. P. F. Olsen, 720 Cass St., archt.

Wis., Appleton — Temple — Apr. 20, by Appleton Masonic Temple Assn., and Leenhouts & Guthrie, archts., 424 Jefferson St., Milwaukee, 2 and 3 story, 62 x 100 ft. and 46 x 50 ft., stone and concrete, plain foundation. $15,000. Noted Feb. 8.

Wis., Madison—Store and Apartment—M. A. Allison, 315 Beaver Bldg., taking bids 4 story, 75 x 190 ft., brick, rein.-con. and steel, plain foundation. $150,000. R. A. Phillips, 315 Beaver Bldg., archt. Noted Dec. 28.

Wis., Madison—Store—F. Riley, archt., Conklin Bldg., taking bids 4 story, 60 x 155 ft., brick, rein.-con. and steel, plain foundation, State and Fairchild Sts. for Kessinicks Co., 26 North Carroll St. Noted Feb. 1.

Wis., Madison—Temple—Masonic Lodge, c/o J. S. Mack, Capitol Bldg. and J. R. and E. J. Law, archts., First Central Bldg., taking bids 3 story, 110 x 132 ft., brick, rein.-con. and steel. $400,000.

Ia., West Union—Court House—Apr. 26, by Fayette Co., 3 story and basement, 90 x 116 ft., rein.-con., brick, tile and stone. $250,000. C. F. Chambers, aud. J. G. Ralston, L. and J. Bldg., Waterloo, archt. Former bids rejected. Noted Mar. 22.

Calif., San Francisco—Apartment—F. W. Quandt, archt., Monadnock Bldg., receiving bids 10 story and basement, rein.-con., Bway. near Octavia St., for The Heights, Inc., c/o R. Whitney, Monadnock Bldg. $200,000.

BIDS RECEIVED

N. Y., Penn Yan—Hospital—Building Com. of Soldiers' & Sailors' Hospital, 39 x 117 ft., brick, concrete and steel, from Marshall & Co., Syracuse (street address not available) $145,000; Williamson & Co., 357 East 5th St., Elmira, $147,000; B. H. Rogers, Penn Yan, $149,264; A. Friederich & Sons Co., 710 Lake Ave., Rochester, $113,598, not incl. steam heating, plumbing and electrical work. Noted Feb. 8.

N. J., Morris Plains—Dining Hall and Kitchen—B. G. Lewis, comr. Institutions and Agencies, State House, Trenton. Apr. 2, general contract 4 story, 45 x 170 ft., brick, concrete and steel, here, from Gibbs-Mueller Co., Heyman Bldg., Phila., $274,277; Wills-Bill Co., 1708 Samson St., Phila., $274,947, for State Hospital for Insane. Archts. est. $216,000. Noted Mar. 15.

Pa., Phila.—School—Bd. Educ., 19th and Chestnut Sts., Apr. 5, 3 story, rein.-con., brick and steel, plain foundation, 17th and Moyamensing Aves., from W. R. Dougherty & Co., 1516 Sansom St., $486,471; Cramp & Co., Denckla Bldg., $493,600; Sinclair & Griggs, Medical Arts Bldg., $497,774.

O., Lakewood (Cleveland P. O.)—Schools—Bd. Educ., Mar. 31, 2 story and basement, 48 x 123 ft., brick, steel and concrete addition to Roosevelt School, Athens Ave., from J. Grant & Son, 4500 Euclid Ave., Cleveland, $106,270, Schrader Constr. Co., 1640 East 40th St., Cleveland, $109,200, G. H. Moehlman, Norwalk, $110,710; 2 story and basement, 68 x 123 ft., brick, steel and concrete addition, to Harrison School, plain foundation, 2079 Dowd Ave., from Schirmer O'Hara Co., 2031 Euclid Ave., Cleveland, $147,785; J. Grant & Son, 4500 Euclid Ave., Cleveland, $150,963, H. F. Juergens Co., Lake Dr., $154,800. Noted Mar. 22.

O., Medina—High School—Bd. Educ., Mar. 31, 2 story and basement, 99 x 183 ft., brick, steel and concrete, from C. C. Hursh, Kenmore, $231,000; V. W. Surber, 314 Everett Bldg., Akron, $233,000. Archts. est. $210,000. Noted Mar. 29.

Wis., Bend—High School—Bd. Educ., brick, rein.-con. and steel, from B. Beauregard, 3rd St., De Pere, $198,840; A. Nielson Co., Neenah, $199,700; H. J. Sellmer Co., McCartney Bank Bldg., Green Bay, $205,100, Archts. est. $200,000.

Wis., West Bend—High School—School Bd., Mar. 27, 2 story and basement, brick, tile and concrete, plain foundation, from B. Beauregard, 3rd St., De Pere, $198,840; H. J. Selmer Co., McCartney National Bank Bldg., Green Bay $205,100; A. Nielson Co., 702 South Commercial, Neenah, $199,700. Noted Mar. 8.

Calif., Alameda—Apartment—L. Kalisky, c/o A. A. Cantin, archt., 68 Post St., San Francisco, 3 story, rein.-con., Grand and Central Aves., general contract from J. Morton, Balboa Bldg., San Francisco, $151,582; H. P. Nelson, 1947 Blake St., Oakland, $153,650; Larsen-Siegrist Co., 180 Jessie St., San Francisco, $153,697. Noted Mar. 15.

Calif., Los Angeles—Office and Store—Owl Drug Co., 601 South Bway., 2 story, 71 x 172 ft., with 65 x 72 ft. wing, 7th and Alvarado Sts., from Barrett & Hilp, 918 Harrison St., San Francisco, $150,000.

Calif., Torrance—High School—Torrance High School Dist., 1 story, 56 x 116 ft. auditorium, 1 story, 62 x 123 ft. shop and 9 room addition to high school, from Darrell-Condley Co., Marsh-Strong Bldg., Los Angeles, $152,000; Clark & Libby, 5117 Hollywood Blvd., Los Angeles, $162,500; J. Simpson Co., 701 Antonio Ave., Los Angeles, $164,800. Noted Mar. 22, under "Los Angeles."

CONTRACTS AWARDED

N. Y., Brooklyn—School—W. H. Gompert, archt. and engr., Flatbush Ave. extension and Concord St., P. S. 190, brick, steel and stone, plain foundation, Sheffield Ave., to T. A. Clarke Co., Livingston St., $637,300. Noted Mar. 29.

N. Y., New York—Apartment—K. Acker, c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., will build 5 story, 70 x 100 ft., brick, steel and stone, plain foundation, Burnside and Grand Aves., by day labor. $225,000.

N. Y., New York—Apartment—W. E. Bergen, c/o C. S. Clark, archt., 443 East Tremont Ave., will build 6 story, 100 x 135 ft., brick, steel and stone, plain foundation, Andrews Ave., by day labor.

N. Y., New York — Apartment — Concourse Impvt. Co., c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., will build 5 story, 95 x 101 ft., brick, steel and stone, plain foundation, 168th St. and Grand Concourse, by day labor.

N. Y., New York—Apartment—J. Kovacs, c/o C. Kreymberg, archt. and engr., 2534 Marion Ave., will build 5 story, 90 x 105 ft. brick, steel and stone, plain foundation, Sedgwick Ave. near Townsend Ave., by day labor. $225,000.

N. Y., New York—Apartment—Dunca Realty Co., c/o J. J. Runnigan, archt. and engr., 394 East 150th St., will build 5 story, 90 x 115 ft., brick, steel and stone, plain foundation, Andrews and Burnside Aves., by day labor. $200,000.

N. Y., New York—Apartments—A. Stockinger, c/o Goldner & Goldner, archts. and engrs., 47 West 42nd St., two 6 story, brick, steel and stone, plain foundations, Grand Concourse, by day labor. $175,000 each.

N. Y., New York—Apartment—Universal Finance Co., Inc., c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., will build 100 x 125 ft., brick, steel and stone, plain foundation, Grand Concourse near 199th St., by day labor. $250,000.

N. Y., New York — Office — Syndicate headed by A. Pottier, c/o Buchman & Kahn, archts. and engrs., 49 West 45th St., brick, steel and stone, plain foundation, 489-491 5th Ave., to G. Richard Davis, 30 East 42nd St. Archts. est. $500,000.

N. Y., New York — Schools — W. H. Gompert, archt., Flatbush Ave. extension and Concord St., Brooklyn, P. S. 72, East 104th St., to Blenton Building Corp., 342 Madison Ave., $616,200; P. S. 121, East 103rd St. and 2nd Ave., to M. F. Kelly Co., Inc., 51 East 42nd St., $438,945; P. S. 6, East Tremont Ave., to C. Meads & Co., 217 West 14th St., $171,100; P. S. 11, West 21st St. and 8th Ave., to G. Dekempe, $808,800, all brick, steel and stone, plain foundations. Noted Mar. 29 and Apr. 5.

Pa., Braddock—Bank—W. L. Stoddart, archt. and engr., 9 East 40th St., New York City, 4 story and basement, 50 x 120 ft. concrete, brick and steel, to Hunkin-Conkey Constr. Co., Century Bldg., Cleveland, O., for 1st Natl. Bank. Archts. est. $250,000. Noted Feb. 15.

Pa., Chester—Bank and Office—Cambridge Trust Co., 5th and Market Sts., 3 story and basement, 75 x 75 ft. brick and steel, plain foundation, to Chester Contg. & Constr. Co., Chester. Archts. est. $275,000. Noted Aug. 24.

Pa., Jeanette—Church—C. G. Strong, archt., Union Bank Bldg., Pittsburgh, 1

Buildings (Continued)

story and basement, 86 x 156 ft., 7th St., to E. Wehr, Hiland Bldg., Pittsburgh, for Sacred Heart Catholic Congregation. Archts. est. $150,000. Noted Mar. 8.

Pa., Johnstown—Church and Parsonage—Trinity Evangelical Church, Willow St., concrete, brick and foundation work for 2 story and basement, 90 x 100 ft. church and parsonage, to Thiele Constr. Co., 823-32 Pine St.; plumbing and heating to Paul Plumbing & Heating Co., Johnstown. Archts. est. $150,000. Noted Mar. 8.

Pa., New Castle—School—Bd. Educ., 2 story and basement, 111 x 138 ft. brick and steel, Rose and Ryan Sts., general contract to A. Wishart & Sons Co., 20 Silver St., Sharon, $145,748. Noted Dec. 14.

Pa., Phila.—City Hall—F. H. Caven, dir. pub. wks., City Hall, 3 story and basement, 87 x 122 ft. concrete, brick and steel, plain foundation, Germantown Ave. and Haines St., to Mitchell-Houseworth Co. Inc., 2512 North 27th St., $323,413. Noted Mar. 8.

Pa., Philadelphia — Clubhouse — Girard Craftsmen Club, 2102 Chestnut St., 7 story and basement, 60x161 ft. rein.-con., brick and steel, 2025-2029 Chestnut St., to J. B. Hallahan, 2315 Walnut St., $800,000. Noted March 22.

Pa., Philadelphia—Loft—Kraftstow & Titleman, Juniper and Vine Sts., 7 story and basement, 74x190 ft. and 45x73 ft. rein-con., brick and steel, plain foundation, 33rd and Arch Sts., to W. R. Dougherty & Co., 1610 Sansom St., $300,000.

Pa., Philadelphia.—Store and Office—Oppenheim, Collins Co., 1207 Chestnut St., 6 story, basement and sub basement, 48x 230 ft. rein. con., brick and steel, 1126 Chestnut St., to C. A. Cowen & Co., 30 East 42nd St., New York City. Noted Jan. 18.

Pa., Susquehanna—School—Bldg. Com. St. Johns Parish, 71-157 ft. concrete, brick and steel, to A. E. Badgley, Stone O. P. H. Bldg., Binghamton, N. Y., $138,000.

Va., Roanoke—High School—Bd. Educ., 2 story and basement, 151 x 294 ft., to E. M. Herringdon & Co., Roanoke, $476,011.

W. Va., Charleston — Hotel — Federal Hotel Co. Inc., 13 story and basement, 135 x 147 ft., stone, brick, steel and terra cotta, Dunbar and Kanawha Sts., to Ring-Hartman Co. Inc., 304-6 Pearson Bldg. Archts. est. $2,000,000. Noted Apr. 5.

O., Arcanum—School—Bd. Educ., 2 story and basement, 65 x 220 ft., brick and concrete, to Dwyer Bros. Constr. Co., Greenville, $164,539. Noted Apr. 5.

O., Cleveland — Sales — W. S. Ferguson Co., archts., 1900 Euclid Ave., 3 story, 62 x 160 ft., brick and rein.-con., salesroom and auto service building, 2,000 Euclid Ave., to M. B. Parker Constr. Co., Union Bldg., for Studebaker Sales Co. of America, 2020 Euclid Ave. Archts. est. $200,000. Noted Mar. 1.

O., Lorain — Clubhouse — P. Rissman, archt., Lorain, 6 story, 65 x 130 ft., brick, steel and concrete addition, Bway., to L. A. Burgett Co., Lorain, for F.O.E., c/o P. Cook, chn. building com. Archts. est. $200,000. Noted Feb. 15.

O., Toledo—Church—St. Pauls Lutheran Church, 1 story and basement, brick, steel and stone, to Bierkebiele & Sons, 528 South St. Clair St. Archts. est. $300,000. Noted Feb. 8.

Mich., Detroit—Apartment—Homer Warren & Co., 1227 Detroit Savings Bank Bldg., 4 story and basement, 130 x 150 ft. rein.-con., brick and steel, plain foundation, Dumbarton Rd., to K. Palman, 4712 West Warren Ave. Archts. est. $450,000.

Mich., Hamtramck (Detroit P. O.)—School—Bd. Educ., 2 story and basement, 70 x 200 ft. rein.-con., brick and steel, plain foundation, to W. H. Mueller, 1711 Ford Bldg., Detroit, $250,000.

Mich., Pontiac—Temple—Masonic Temple Assn., 3 story and basement, rein.-con., brick and steel, plain foundation, to Natl. Constr. Co., 1031 Dime Bank Bldg., Detroit. Archts. est. $350,000. Noted Dec. 21.

Ill., Chicago—Apartment—W. Goldblatt, 127 North Dearborn St., 2 story and basement, 80 x 133 ft., rein.-con., brick and steel, 7332-44 Jeffery Ave., to J. McHugh, 7033 South Morgan St. Archts. est. $200,000.

Ill., Chicago—Apartment—F. A. Johnson, 14 North Mayfield St., 3 story, 96 x 124 ft., rein.-con., brick and steel, 4812-22 West Monroe St., to D. M. Reid, 140 South Dearborn St. Archts. est. $150,000.

Ill., Chicago—Church—First Austrian Congregation, 1913 Potomac Ave., 2 story, 65 x 125 ft., rein.-con., brick and steel, 1353-59 North California Ave., to Chicago Building Constr. Co., 447 North Kedzie Ave. Archts. est. $150,000. Noted Nov. 2.

Ill., Crystal Lake—School—Bd. Educ., 2 story, 200 x 200 ft., rein.-con., brick and steel, to Skoglund & Webberg, De Kalb, Archts. est. $200,000. Noted Feb. 8.

Ill., Evanston—Apartment—S. Johanson, c/o A. H. Quitsow, archt., 11 South La Salle St., Chicago, 3 story and basement, 94 x 156 ft., rein.-con., brick and steel, Sheridan Sq. and Keeney Ave., here, to J. Traff, 3960 North Robey St., Chicago. Archts. est. $215,000. Noted Mar. 22.

Wis., Milwaukee—Apartment—M. Routt, 265 25th St., 3 story and basement, 55 x 188 ft., brick, tile and concrete, plain foundation, Stowell Ave., to R. L. Reisinger & Co., 464 Oakland Ave. Archts. est. $150,000.

Wis., Milwaukee — Office — West Side Realty Co., 90 Mason St., 9 story and basement, 50 x 150 ft., 2nd St., to R. L. Riesinger & Co., 464 Oakland Ave. Archts. est. $300,000.

Wis., Milwaukee—School and Convent—St. Rose of Lima Congregation, 3007 Sycamore St., 3 story and basement, 100 x 180 ft. and 40 x 70 ft., brick, tile and concrete, plain foundation, Clybourn St., to Hutter Constr. Co., 128 Western Ave., Fond du Lac. Archts. est. $350,000. Noted Mar. 8.

Kan., Pittsburg—Temple—Mirza Temple A.A.O.N.M.S., 3 story and basement, 142 x 150 ft., rein.-con. and brick, to A. E. Todd & Son, Independence, $262,450. Noted Mar. 29.

Okla., Oklahoma City—Sales—A. C. Bennett, Criterion Theatre, 2 story, 100 x 140 ft., brick, 5th and Robinson Sts., to Gross Constr. Co., 619 West Main St., $150,000.

Calif., Los Angeles—Office—See "Industrial Works."

Calif., Los Angeles—Office—L. A. Morgan, c/o Walls & Morgan, archts., Van Nuys Bldg., 5 story and basement, rein.-con., office and warehouse, East 1st St., to Weymouth-Crowell Co., 2026 West 9th St., $175,000.

Calif., Los Angeles—Office—Southern California Telephone Co., 716 South Olive St., 4 story and basement, brick and steel, Adams and Hobart Sts., to K. R. Bradley, 1925 East 16th St., $175,000.

Calif., Los Angeles—Store—Bway. Dept. Store, 4th St. and Bway., 11 story and basement, concrete, brick and steel annex, 4th St. near Bway., to Weaver Constr. Co., Wright-Callendar Bldg., cost plus percentage basis.

Calif., Palo Alto—Dormitory—L. Stanford, Jr., University Junction (Palo Alto, P. O.). 2 and 3 story, rein.-con., here, to G. Wagner, 251 Kearny St., San Francisco, $450,000.

Calif., San Francisco—Apartment—D. J. Clancy, 2884 Folsom St., will build 6 story and basement, rein.-con., Jones St., by day labor, under supervision of Baumann & Jose, archts., 251 Kearny St. $150,000. Noted Dec. 21.

Calif., San Francisco—Office—See "Industrial Works."

Ont., Weston—School—Bd. Educ., 2-story and basement, concrete, brick and steel, to N. McLeod, Ltd., Kent Bldg., Toronto. Archts. est. $150,000. Noted Jan. 18.

Federal Government Work

PROPOSED WORK

Del., Wilmington—Bridges—U. S. Engineer, Wilmington, takes bids in May, six 115 ft. steel drawbridges, concrete foundations, over Delaware and Chesapeake Canal, between Delaware City, Del., and Chesapeake City, Md. E. I. Brown, dist. engr. Harrington, Howard & Ash, 1012 Baltimore Ave., Kansas City, Mo., consult. engrs. Noted Jan. 4.

Minn., St. Cloud — Tank — Spec. 4829—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans tank at U. S. Veterans' Hospital, here.

Minn., St. Cloud—Water System, etc.—Spec. 4830—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans water and sewerage system at U. S. Veterans' Hospital, here.

BIDS DESIRED

N. Y., New York—Dredging—May 11 at office U. S. Engineer, 2nd Dist., Army Bldg., dredging and rock removal in New York and New Jersey Channels; adv. this issue. Noted Mar. 15.

N. Y., Saratoga Springs—Boiler—May 8 by Treas. Dept., Wash., D. C., removing present boiler and installing new one in U. S. Post Office, here. J. A. Wetmore, acting superv. archt.; adv. this issue.

D. C., Anacostia — Laboratory — Spec. 4824—Apr. 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., photographic laboratory, here. Noted Mar. 29.

N. C., Oteen—Boilers—May 7, by Treas. Dept., Wash., D. C., removing 2 boilers, furnishing and installing 2 new horizontal return tubular boilers in U. S. Veterans Hospital, here. J. A. Wetmore, acting superv. archt.

Fla., Key West—Metal Work—May 12, by Superintendent of Lighthouses, Key West, metal work for repairing Sand Key Light Station; adv. this issue.

Ky., Louisville—Bear Trap Leaves—May 11, at office U. S. Engineer, bear trap leaves for Dam 44, Ohio River. Noted Mar. 22.

Minn., Mankato — Boilers — May 3, by Treas. Dept., Wash., D. C., horizontal smokeless boilers in U. S. Post Office and Court House, here; adv. this issue.

Nevada — Road — Apr. 24, by C. H. Sweetser, dist. engr. Bureau Pub. Rds., Mills Bldg., San Francisco, Calif., grading, surfacings, etc. 13.6 mi. Currant Creek Forest Rd., 26 mi. southwest Ely, Nye and White Pine Counties, 26,000 cu.yd. excav., 3,200 cu.yd. surfacing, etc.

Nevada — Road — Apr. 26, by C. H. Sweetser, dist. engr. U. S. Bureau Pub. Rds., Mills Bldg., San Francisco, Calif., grading and surfacing 16.5 mi. Austin East National Forest Highway, Lander Co., 80,000 cu.yd. excav., 17,150 cu.yd. surfacing, etc.

BIDS RECEIVED

N. Y., Ft. Lafayette (Brooklyn P. O.)—Roof—Spec. 4791—Bureau Yards & Docks, Navy Dept., Wash., D. C., magazine roof at Naval Ammunition depot, here, (1) work complete, from G. H. Cooper, 1674 Bway., New York (1) $9,340 (75 days) (2) add $700 (3) add $500; Donnell-Zane Co., 233 Bway., New York (1) $9,774 (120 days) (3) add $135 (outside only) add $260 (both sides); R. J. Mansfield, 53 Park Pl., New York (1) $11,342 (75 days) (2) add $500 (15 days) (3) add $250 (20 days).

Ky., Louisville—Piling—U. S. Engineer, P. O. Box 72, delivering 309 tons steel sheet piling for Dam 44, Ohio River, from Carnegie Steel Co., Carnegie Bldg., Pittsburgh, Pa., $0.0299 per lb. f.o.b. Pilcher (delayed delivery); Bethlehem Steel Co., Bethlehem, Pa., $0.03095 per lb. f.o.b. Pilcher. Noted Mar. 8.

Mo., Kansas City — Extension — Treas. Dept., Wash., D. C., extension 3, incl. mechanical equipment, U. S. Post Office and Court House, here, from W. R. Thurston Co., Merchants Natl. Bank Bldg., Richmond, Va., stone $323,000, granite $407,000; J. R. Vansant Constr. Co., 417 Dwight Bldg., granite $497,000; A. Blair, 11 South Lawrence St., Montgomery, Ala., stone $393,000, granite $506,000. Noted Mar. 1.

Calif., San Diego — Storehouse — Spec. 4770—Bureau Yards & Docks, Navy Dept., Wash., D. C., storehouse for paint and oil at Naval Base, here, (1) work complete, from De Waard & Cobham, 208 Grainger Bldg., (1) $21,700 (100 days) (2) $500 (3) $450 (4) $4,000 (5) $800; Union Constr. Co., foot of 14th St., Oakland, (1) $23,700 (90 days) (2) $600 (3) $400 (4) $3,780 (5) $900 alternate on concrete floors $0.30; Gutleben & Bros., 609 I. W. Hellman Bldg., Los Angeles (1) $24,000 (90 days) (2) $480 (3) $400 (4) $3,000 (5) $800, alternate $210 deduction for omitting second coat of paint on steel. Noted Apr. 5.

CONTRACTS AWARDED

R. I., Providence—Dredging—U. S. Engineer, Providence, maintenance dredging in Connecticut River, 70,000 cu.yd. scow measurement, to Hartford and New York Transportation Co., New Haven, Conn. (street address not available), $13,650. Noted Mar. 22.

N. Y., New York—Dredging, etc.—U. S. Engineer, Army Bldg., 39 Whitehall St., dredging and rock removal in East River, to Arundel Corp., 2 Pratt St., Baltimore, Md., $704,387. Noted Mar. 1.

Pa., Phila.—Fuel Oil—U. S. Engineer, 815 Witherspoon Bldg., furnishing 40,000 bbl. fuel oil for vessels in Phila., to Crew Levick Co., 111 North Broad St., $73,750. Noted Mar. 15.

Ind., Leavenworth—Gates—U. S. Engineer, Cincinnati, furnishing, delivering and erecting lock gates for Dam 44, Ohio River, here, to Nashville Bridge Co., Shelby Ave., Nashville, Tenn., $56,900. Noted Apr. 5 under "Cincinnati, O."

Tenn., Memphis—Tank and Tower—Mississippi River Dredging Dist. P. O. Box 1017, water tank and tower at U. S. Dredge Depot, here, to Dunbar & Sullivan Dredging Co., 2212 Dime Bank Bldg., Detroit, Mich., $90,311. Noted Mar. 1.

Mich., Detroit—Dredging—U. S. Engineer, 337 Federal Bldg., dredging in Rouge River, 193,300 cu.yd. excav., with miximum allowable overdepth of 18,200 sq.yd., to Dunbar & Sullivan Dredging Co., 2212 Dime Bank Bldg., $90,311. Noted Apr. 5.

Cuba, Guantanamo—Distilling Apparatus, etc.—Spec. 4769—Bureau Yards & Docks, Navy Dept., Wash., D. C., distilling apparatus and heater at Naval Station, here, to Wheeler Condenser and Eng. Co., Woodbridge Rd., Carteret, N. J. $25,657 (150 days). Noted Mar. 22.

Miscellaneous

PROPOSED WORK

Fire Alarm Signal System—Boston, Mass.—See "Buildings."

Beautifying Strandway—Dorchester (Boston P. O.), **Mass.**—Plans extending and beautifying Strandway, (waterfront boulevard). $500,000. J. A. Rourke, comr. pub. wks.

Park—Wallingford, Conn.—State Park & Reservation Comn., State House, Hartford, plans to buy land on Mt. Tom, here, and convert same into memorial park. $75,-000. L. Robinson, 45 Forest St., Hartford, member of comn. Engineer not selected.

Transmission Line—New York—Adirondack Power & Light Corp., 511 State St., Schenectady, plans additional 18 mi. 3 phase high tension transmission line from Rotterdam distribution station to North Albany sub-station. $23,500 per mi.

Oil Storage Plant—Carthage, N. Y.—Northern Oil & Fuel Corp., 469 Coffeen St., Watertown, plans oil storage plant, incl. steel tanks, here. $25,000-$30,000. G. W. Lane, pres.

Steel—Flushing, N. Y.—Transit Comn., 49 Lafayette St., New York, withdrew bids, Apr. 2, furnishing and erecting structural steel for part of Rapid Transit R.R., Flushing Route. Noted Mar. 22.

Dyke—Lowville, N. Y.—See "Streets and Roads."

Elimination of Grade Crossings—Erie, Pa.—Plans to vote on $55,000 bonds (city's share), for eliminating grade crossings. F. G. Lynch, city engr.

Power Development—Carthage, N. C.—Smitherman Power Co., Troy, having surveys made power development and dams on Drowning Creek, Moore Co. Will ultimately build cotton mill along creek and its tributaries.

Granite Quarry—Rolesville (Wake Forest, P. O.), **N. C.**—Public Service Co., Terminal Bldg., Newark, N. J. plans development of large granite quarry, here, also several miles of railroad, stone crushers with output of 25 cars per day, etc. $1,000,000. T. N. McCarter, pres.

Transmission Line—Riverton (R. D. New Lebanon), **Ind.**—Indiana Power Co., 327 South La Salle St., Chicago, plans 3-phase 33,000-volt power transmission line across Wabash River at point near here, connecting Indiana Power Co. with Central Illinois Public Service Co., heavy design steel towers, concrete foundations, wires span 545 ft. J. N. Carnacan, secy. and managing engr.

Parks, etc.—Chicago, Ill.—Voted $2,000,-000 to improve Grant Park, $2,000,000 for new parks and improving existing parks, $15,000,000 for lake front development, and $1,000,000 for lighting system on boulevards and parks. Address South Park Comrs., 57th St. and Cottage Grove Ave.

Hydro-Electric Development—Little Falls, Minn.—Little Falls Water Power Co. had plans prepared hydro-electric development, 2 dams in Mississippi River, and power house. $100,000. H. G. Stevens, secy.

Park Improvements—Dallas, Tex.—Voted $325,000 bonds park improvements. G. D. Fairtrace, city engr.

Grade Separation—Colorado—State Hy. Comn., Denver, appropriated $355,000 for grade separation, etc., in El Paso and Boulder Counties. L. D. Blauvelt, Denver, ch. engr.

Lighting System—Chandler, Ariz.—Plans election to vote on $40,000 bonds for lighting system.

Power Development—Millwood, Wash.—See "Industrial Works."

Power Development—California—H. L. Shannon, engr., 2730 Sacramento St., San Francisco, preparing preliminary plans power development in Tehama Co., incl. small concrete diversion dam, water to be carried through flume and ditch about 10 mi. to power house, developing 10,200 hp. $600,000. Owners name withheld.

Harbor Improvements—Monterey, Calif.—Plans election to vote on $200,000 bonds harbor improvements, dredging, fill, etc.

Amusement Resort—San Diego, Calif.—J. D. Spreckels, Union Bldg., plans amusement resort at Mission Beach, here, incl. large convention hall, pleasure pier, civic center, bath house, and electric car line from center of city. $2,000,000.

Telephone and Telegraph Extensions, etc.—Canada—Dominion Government, Parliament Bldg., Ottawa, Ont., voted $37,425 bonds for telephone and telegraph construction in Saskatchewan, Alberta and British Columbia, also $921,950 for miscellaneous public works. A. St. Laurent, Parliament Bldg., Ottawa, Ont., ch. pub. wks.

Grain Elevator—Goderich, Ont.—Western Canada Flour Mills, 293 McPherson Ave., Toronto, plans 750,000 bu. addition to grain elevator, rein.-con. $250,000.

BIDS DESIRED

Heating and Ventilating Systems—Albany, N. Y.—Bd. Contr. & Supply taking bids heating and ventilating systems in Schools 1, 3, 5, 6, 7, 8, 13, 22 and 24. To exceed $100,000.

Heating and Ventilating Apparatus, etc.—Brooklyn, N. Y.—Apr. 18, by W. H. Gompert, archt., Flatbush Ave. extension and Concord St., heating, ventilating and temperature regulation apparatus in P. S. 189, easterly side of East New York Ave. between Rockaway Parkway and East 96th St.

Borings—New York, N. Y.—Apr. 19, by Transit Comn., 49 Lafayette St., borings on sites of proposed Coney Island Yard, Boro of Brooklyn, proposed Westchester Ave. Yard, Boro of Bronx, along proposed extension to Bway.-4th Ave. Rapid Transit R.R. in Central Park between 7th Ave. and Central Park W, Boro of Manhattan, Agreement "CI". G. McAneny, chn.

Ferry Boats—New York, N. Y.—Apr. 26, by G. A. Whalen, comr. Plant & Structures, Municipal Bldg., building steel screw ferryboats.

Tar and Asphalt—Trenton, N. J.—Apr. 24, by Freeholders Mercer Co., 100,000 gal. tar and asphalt. H. F. Harris, Court House, engr.

Trap Rock, etc.—Trenton, N. J.—Apr. 30, by State Hy. Comn., furnishing crushed trap rock, limestone, dolomite or gneiss. A. W. Muir, 517 Broad St. Bank Bldg., supt. of maintenance; adv. this issue.

Coal Bins and Trestle—Lancaster, Pa.—Phila. & Reading R.R., Reading Terminal, Phila., taking bids 9 coal bins, trestle and storage, concrete and steel, size 22 x 284 ft. $200,000. A. Wagner, Reading Terminal, engr.

Sheet Piling—New Orleans, La.—Apr. 19, by Bd. Port Comrs., New Court Bldg., 520,000 ft. untreated Martinez sheet piling.

Road Oil—Nashville, Tenn—Apr. 18, by Davidson Co. Purchasing Com. 150,000-250,000 gal. road oil.

Lighting System — Fairport (Fairport Harbor P. O.)—**O.**—Apr. 21, by J. Markko, village clk., street lighting system; adv. this issue.

Gas Laterals — Beloit, Wis. — See "Sewers."

Cable—Hartford, Wis.—Apr. 17, 45,000 ft. standard No. 8 single conductor, solid copper, 600 volt or 2,500 volt Parkway cable f.o.b. Hartford. W. Radke, city clk. Private plans.

Foundation—Milwaukee, Wis.—Kirchhoff & Rose, archts., 211 Grand Ave., taking bids and open same about Apr. 16, excavating and wood piling for 4 story and basement, 68 x 100 ft., brick and concrete bank, Grand Ave., for Amer. Exch. Bank, Plankinton Arcade. Noted Feb. 15 under "Buildings."

Granite Paving Blocks — Minneapolis, Minn.—Apr. 16, by F. S. Cram, city purch. agt., 9,000 sq.yd. granite paving blocks. N. W. Elsberg city engr.

Stadium—Lincoln, Neb.—Apr. 24, by Nebraska Memorial Assn., c/o University of Nebraska, rein.-con. and steel stadium, moon shaped, 40,000 seating capacity. $430,000. Davis & Wilson, 515 Securities Bldg., Lincoln, and J. Latenser & Sons, 732 Peters Trust Bldg., Omaha, archts.

Elevator—Dallas, Tex.—See "Industrial Works."

Relaying Rail—California—See "Railways."

Crane—Pasadena, Calif.—Apr. 16, by B. Chamberlain, city clk., item 1, furnishing electrically driven crane with 50 ton and 10 ton auxiliary hooks; item 2, same as item 1, only delivering and installing.

Retaining Wall—San Francisco, Calif.—See "Streets and Roads."

Crushers, Motors, etc.—Vernon (Watts P. O.), **Calif.**—See "Contracts Awarded."

BIDS RECEIVED

Lumber—Brooklyn, N. Y.—E. Riegelmann, boro pres., Boro Hall, 56800 ft. lumber, delivered to Ave. U bridge over Gerritsens Creek, from Johnson Bros., 45 Classon Ave., $4,470. Noted Mar. 29.

Tunnel — Seattle, Wash. — Constructing tunnel and sinking shaft, 1st Ave. S., (a) 404 ft. tunnel excav. (b) 400 cu.yd. shaft lining (c) 500 cu.yd. tunnel lining (d) sinking shaft, 137.5 ft., from J. A. McEachern, Colman Bldg., (a) $142 (b) $26 (c) $30 (d) $250, etc., total $123,668; Puget Sound Bridge & Dredging Co., Central Bldg., (a) $112 (b) $27 (c) $44 (d) $250, etc., total $133,788. Engrs. est. $80,000.

CONTRACTS AWARDED

Brick—Binghamton, N. Y.—Bd. Contr. & Supply, 20,000 yellow brick, to Amer. Clay & Cement Corp., Insurance Bldg., Rochester. $46 per M; 80,000 red briek, to Binghamton Brick Co., Broad St., $33.50 per M.

Heating and Ventilating Apparatus—Brooklyn, N. Y.—W. H. Gompert, archt., Flatbush Ave. extension and Concord St., heating, ventilating and temperature regulation apparatus in New Utrecht High School, 79th and 80th Sts., to W. J. Olvany, 100 Charles St., New York, $193,785. Noted Apr. 5

Aggregate—Long Island City, N. Y.—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., 22,500 cu.yd. mineral aggregate, to Rosoff Sand & Gravel Corp., 152 West 42nd St., New York, $64,013; 11,-500 cu.yd. highway sand, to E. B. Simpson, Hempstead Turnpike, Hollis, $14,375, 1,000 cu.yd. sand grit, to Peace Bros., Inc., 57 North Laurence St., Flushing, $2,500; 550,000 gal. road oil, cold application, to Texas Co., 17 Battery Pl., New York, $27,-445; 150,000 gal. road oil, hot application, to Warner Quinlan Co., 79 Wall St., New York, $9,240; 100,000 gal. bituminous macadam, 900 tons asphaltic cement, 25,000 gal. fuel oil, 25,000 gal. asphalt cold patch and 10,000 gal. gasoline, to Standard Oil Co., of New York, 26 Bway., New York, $7,130, $18,873, $1,568, $4,250 and $2,140 respectively; 40,000 wood paving blocks, to Amer. Creosoting Co., 17 Battery Pl., New York, $5,068; 50,000 asphalt paving blocks, to Hastings Pavement Co., 25 Broad St., New York, $4,700. Noted Apr. 5.

Foundations—New York, N. Y.—E. S. O'Malley, comr. Pub. Markets, Municipal Bldg., foundations for Bronx Terminal Market, to H. P. Converse Co., 440 East 142nd St., $580,000. Noted Apr. 5.

Ties and Timber—New York, N. Y.—Transit Comn., 49 Lafayette St., ties and timber for use in construction of Rapid Transit R.R., to A. R. Sax Lumber Co., 143 West 33rd St., $18,603. Noted Mar. 22.

Asphaltic Oil, etc.—Newton, N. J.—Sussex Co. furnishing asphaltic oil, Grade HK, to Atlantic Refining Co., 1211 Chestnut St., Phila., $2,832; asphalt, to Franklin Contg. Co., 20 Washington Pl., Newark, $4,212; tar, Grade B, to Barrett Co., 40 Rector St., New York City, $13,750. Noted Mar. 22.

Levees — Monroe, La. — G. B. Lambert Co., 1,000,000 cu.yd. levee work on Mississippi River, near here, to W. E. Callahan Constr. Co., Great Southern Life Bldg., Dallas, Tex., $250,000.

Coke and Gas Ovens—Warren, O.—Trumbull Cliffs Furnace Co., 47 improved type coke and gas ovens with byproduct and motor fuel plant to carbonize 429,000 tons coal annually, to Koppers Co., Farmers Bank Bldg., Pittsburgh, Pa.

Bulkhead, etc. — Chicago, Ill. — South Park Comrs., 57th St. and Cottage Grove Ave., to Great Lakes Dredge & Dock Co., 104 South Michigan Ave., bulkhead from 12th to 20th Sts., $1,164,310; 1,000 ft. extension to bulkhead at 23rd St., $95,000.

Fill—Chicago, Ill.—South Park Comrs., 57th St. and Cottage Grove Ave., to Great Lakes Dredge & Dock Co., 104 South Michigan Ave., filling in 1,000,000 cu.yd. opposite Grant Park on Lake Michigan, $330,000, filling in 2,000,000 cu.yd. along lake front from 12th to 18th Sts., $955,000.

Stack—Two Rivers, Wis.—See "Industrial Works."

Transmission Line — Kanorado, Kan. — Electrical transmission line, 16½ mi. long from here to Goodland, to E. O. Brown, 802 Linwood Blvd., Kansas City, Mo., $21,-588; transformers, to Western Electrical Co., 608 Wyandotte St., Kansas City, Mo., $1,967. Noted Mar. 15.

Road Oil—St. Louis, Mo. — G. Oetting, supply comr., 700,000 gal. road oil, to R. J. Brown Petroleum Co., Boatsmen Bank Bldg., $0.05 per gal. delivered. Noted Apr. 5.

Rock Crushing Plant — Vernon (Watts P. O.), **Calif.**—Consumers' Rock & Gravel Co., 26th St. and Vernon Ave., reconstructing rock crushing plant, recently destroyed by fire, to Farley & Farley, Burbank, $25,-000. Will purchase new equipment incl. crushers, motors, etc.

Cement, Stone, Pipe, etc.—Chatham, Ont.—Furnishing 5,400 bbl. cement to Canada Cement Co., Bank of Hamilton Bldg., Toronto, $3.20 per bbl. without sacks, less 10 per cent discount, 3,600 bbl. to A. Rogers, Ltd., 56 Church St., Toronto, $3.20 per bbl. without sacks, less 10 per cent discount; binder stone to Hagersville Crushed Stone Co., Hagersville, $2.25 per ton, f.o.b. Chatham; castings to McKeough & Trotter Ltd., Dover St., $0.035 per lb.; sewer pipe, to J. H. Oldershaw & Son, 122 Thames Ave.; asphalt filler dust, to Chatham Sand & Gravel Co., Chatham, $7.30 per ton without sacks, f.o.b. Chatham.

Underground Cable Work—Toronto, Ont.—Bell Telephone Co., of Canada, 76 Adelaide St. W., will expend $175,000 for lead cable underground conduits work in North Exchange District. Work will be done by day labor.

OFFICIAL PROPOSALS

Bids: April 25.

Pipe

Glens Falls, N. Y.

Sealed proposals will be received by the City Clerk of Glens Falls, N. Y., until 8 p.m. of April 25, 1923, for the furnishing of sewer pipe, branches and fittings of the various dimensions and in the approximate quantities shown in the proposal sheet.

A complete description of the various items of the work will be found on the plans and in the specifications.

All proposals must be on the blank form attached to the contract and specifications and enclosed in an envelope, endorsed with the following words: "Proposal for furnishing the City of Glens Falls, with sewer pipe, branches and fittings under the 1922 Sewer Bond," sealed and addressed to the Common Council of the City of Glens Falls, N. Y.

Forms must be completely filled in and all amounts must be stated in writing as well as in figures.

All proposals shall be open for acceptance for thirty days from advertised date for receiving same.

All bids will be compared on the basis of the Engineer's estimate of the quantities of pipe, branches and fittings to be furnished as given on proposal blank for the work to be done under the sewer contract. The quantities referred to for the various items of work, stated on the proposal blanks, are only approximate and are to be used only as a basis for the comparison of the bids received.

Each bid must be accompanied by a certified check, payable to the order of the City, equal to five per cent (5%) of the amount of the proposal, as evidence of the good faith of the bidder, and to the effect that if the proposal of the bidder is accepted, the bidder will enter into a contract and furnish a satisfactory contract bond for the faithful performance of the work.

The contract bond will be in an amount equal to twenty-five per cent (25%) of the total amount of the bid. The check will be forfeited if the bidder whose proposal is accepted fails to execute a contract and to furnish a surety company contract bond acceptable to the Common Council within fourteen days from the date of notice of award of contract. Checks of unsuccessful bidders will be returned.

Plans and specifications for the work and the proposed contract may be procured from the Engineer, or will be mailed to prospective bidders at their request. A deposit of $25.00 for each set thereof will be required, which amount will be refunded upon the return of such plans and specifications in good condition.

Persons or firms submitting bids must be regularly engaged in the manufacture of or dealing in the materials required to be furnished by the specifications and shall, if required, furnish references of work of a similar character heretofore performed by them.

The right is reserved to reject any and all bids.

Dated, April 5, 1923.

LEON G. BOYNTON, City Clerk.

Bids: May 1.

Paving Construction

Miami, Fla.

Sealed proposals will be received by "The Commission of the City of Miami, Florida," at the City Hall in Miami, Florida, until 9:30 a.m., at the regular meeting of the Commission, Tuesday, May 1, 1923, for the construction of bituminous macadam paving.

The work will consist of approximately 158,268 sq.yd. of bituminous macadam paving and will be divided into two contracts. The bidder can bid on any or all of these contracts.

The improvements are to be constructed and payment therefor is to be made under Section 56 of the City Charter.

All bids must be upon blank forms provided in the proposal, specifications and contract.

Each bid must be accompanied by a certified check for 2½ per cent of the amount of the bid to insure the execution of the contract as provided by Section 56 of the City Charter.

The City reserves the right to reject any or all bids.

Plans and specifications will be on file at the City Hall in the office of the City Manager.

Copies of proposals, specifications and contract can be obtained from the office of Chas. W. Murray, Director of Public Service, on deposit of $10, which will be refunded to those who submit bona fide bids.

F. H. WHARTON, City Manager.

Bids: April 25.

Sewer

Glens Falls, N. Y.

Sealed proposals will be received by the Clerk of the City of Glens Falls, N. Y., until 8 p.m. of April 25, 1923, for the construction of about six and three-quarters miles of sanitary pipe-sewers ranging in size from eight to eighteen inches in diameter, including necessary manholes, house service connections and force mains; about ten miles of storm water pipe sewers ranging in size from eight to twenty-four inches in diameter including all necessary catch basins, manholes, etc., and the installation of two sewage pumping stations, with all accessories and connections.

A complete description of the various items of the work will be found on the plans and in the specifications.

All proposals must be on the blank form attached to the contract and specifications and enclosed in an envelope, endorsed with the following words: "Proposal for the construction of sanitary and storm-pipe sewers and pumping stations under the 1922 Sewer Bonds," and sealed and addressed to the Common Council of the City of Glens Falls, N. Y.

Forms must be completely filled in and all amounts must be stated in writing as well as in figures.

All proposals shall be open for acceptance for thirty days from the advertised date for receiving same.

All bids will be compared on the basis of the Engineer's estimate of quantities of work to be done as given on proposal blank. The quantities referred to in the various items of work, stated on the proposal blanks, are only approximate and are to be used only as a basis for the comparison of the bids received.

Each bid must be accompanied by a certified check, payable to the order of the City, equal to five per cent (5%) of the amount of the proposal, as evidence of the good faith of the bidder, and to the effect that if the proposal of the bidder is accepted, the bidder will enter into a contract and furnish a satisfactory contract bond for the faithful performance of the work. The contract bond will be in an amount equal to twenty-five per cent (25%) of the total amount of the bid. The check will be forfeited if the bidder whose proposal is accepted fails to execute a contract and to furnish a surety company contract bond acceptable to the Common Council, within fourteen days from the date of notice of award. Checks of unsuccessful bidders will be returned.

Plans and specifications for the work and the proposed contract may be procured from the Engineer, or will be mailed to prospective bidders at their request. A deposit of $25.00 for each set thereof will be required, which amount will be refunded upon the return of such plans and specifications in good condition.

Bidders must also submit bids for furnishing both salt-glazed vitrified and machine-made concrete sewer pipe, branches and fittings for which separate proposals have been prepared, but the right is reserved to award the construction and pipe contracts to different bidders.

Persons or firms submitting bids must be regularly engaged in the lines or work required by the specifications and shall, if required, furnish references of work of a similar character heretofore performed by them.

The right is reserved to reject any and all bids.

Dated, April 5, 1923.

LEON G. BOYNTON, City Clerk.

Bids: April 26.

Reinforced Concrete Pavement

Deal, N. J.

Notice is hereby given that sealed bids will be received by the Board of Commissioners of the Borough of Deal for an 8-in. reinforced concrete pavement, and opened and read in public at the rooms of said board at the Borough Hall, Deal, N. J., April 26th, 1923, at 2:15 p.m., Eastern Standard Time.

Drawings and specifications for the proposed work, prepared by James Strollo, Borough Engineer, have been filed in the office of said engineer at Brent Good Bldg., Long Branch, N. J., and may be inspected by prospective bidders during business hours. The standard proposal form is attached to the specifications, copies of which will be furnished on application to the engineer.

Plans and specifications will be furnished to prospective bidders upon payment of ten dollars ($10.00), which amount will be refunded upon return of plans and specifications before the time specified for the opening of bids.

Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of the bidder and name of proposed work on the outside, addressed to the Board of Commissioners of the Borough of Deal and must be accompanied by a certified check for a sum of not less than ten (10%) per cent of the amount bid on the work, payable to the order of the Borough Treasurer and a surety company certificate stating that said surety company will provide the bidder with the required bond, and must be delivered at the place and before the hour above named.

The Board of Commissioners of the Borough of Deal reserves the right to reject any or all bids if deemed to the best interest of the Borough so to do.

By order of the Board of Commissioners of the Borough of Deal.

Attest: AARON J. BACH, Mayor.
CLEM CONOVER, Clerk.
Deal, N. J., April 5th, 1923.

Bids: April 24.

Water Works System

Locust Valley, N. Y.

Sealed proposals will be received by the Board of Water Commissioners, Locust Valley, New York, until eight o'clock P.M. April 24th, 1923, then publicly opened and read in the Matinecock Neighborhood House, for the construction of a system of Water Works for the Locust Valley District, in accordance with plans and specifications prepared by Sidney B. Bowne, Engineer.

WORK INCLUDED IN CONTRACT

UNDER CONTRACT NO. 1

There will be furnished and laid about 18 miles of 6 in., 8 in., 10 in. and 12 in. cast iron mains, with about 150 hydrants and 110 valves.

UNDER CONTRACT NO. 2

There will be furnished and installed two (2) complete units consisting of driven well, motor driven well turbines, etc.

UNDER CONTRACT NO. 3

There will be constructed two brick pumping stations, one about 12 ft. x 12 ft. and the other about 12 ft. x 24 ft. in plan.

UNDER CONTRACT NO. 4

There will be built a Stand Pipe 42 ft. in diameter and 75 ft. high of 770,000 gal. capacity, with ornamental balcony and roof and surrounding an existing elevated tank.

Plans and specifications are on file and may be seen at the office of Sidney B. Bowne, Engineer, Post Office Building, Mineola, New York, and will be forwarded on receipt of five ($5.00) dollars. (Same not to be refunded.)

All inquiries must be addressed to the Engineer.

Each bidder must accompany his proposal with a certified check or its equivalent for five (5%) per cent of the amount of his proposal made payable to E. Mortimer Ward, Treasurer, which will be returned to the unsuccessful bidders immediately following the award of the contract.

The successful bidder will be required to enter into a contract for the performance of the work as may be awarded him or them with a bond of an approved Surety Company for not less than one-half (50%) of the total amount of the awarded contract price.

The right is reserved to reject any or all bids, or accept any bid, or bids, or any portion of any bid.

BOARD OF WATER COMMISSIONERS.
BENJ. W. DOWNING, Chairman.
E. MORTIMER WARD, Treasurer.
EDWIN A. SCHLOTZHAUER, Secretary.
SIDNEY B. BOWNE, Engineer.
Mineola, New York.

Bids: April 24.

Improvements and Additions to the Borough Water System

Belmar, N. J.

Sealed bids are requested for the installation of one (1) deep well pump, equipped with motor and starter, fully installed, together with piping connections. This pump is to be installed in an existing well now located upon the property of the Borough. Detailed specifications may be obtained upon application to the Borough Clerk, Belmar, New Jersey. Such bids will be received by the Mayor and Council at a Council meeting to be held in Council Chambers, Borough Hall on Tuesday evening, April 24th, 1923, at eight o'clock p.m. The Council reserves the right to reject any and all bids.